THE ARCHITECT & BUILDING NEWS

10 FEBRUARY 1960 VOL. 217 NO. 6 ONE SHILLING WEEKLY

- **TWO HOSPITALS**
- **CURRENT MEASURED RATES**

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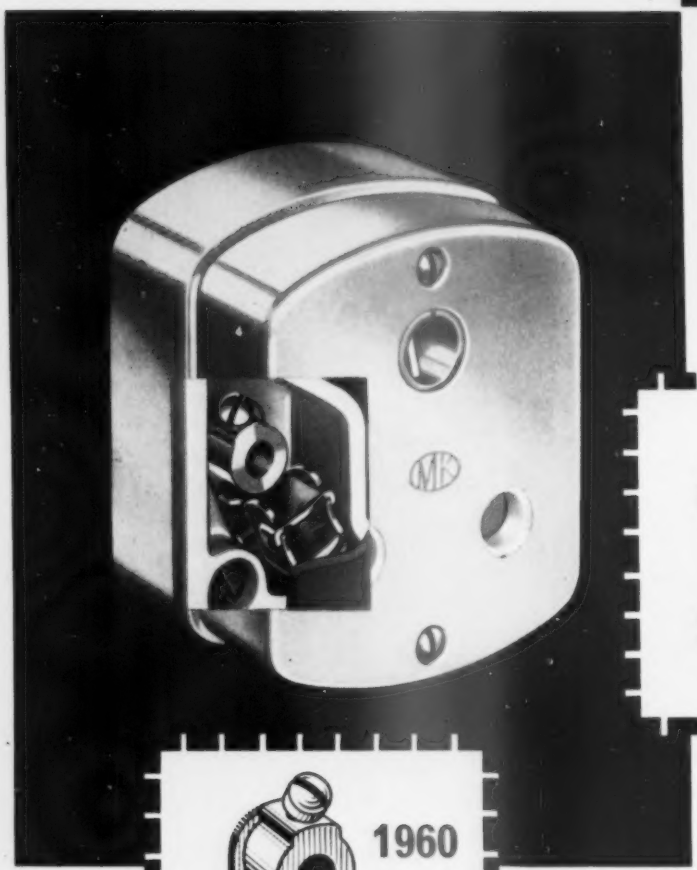
MK176DHB

The origin of MK



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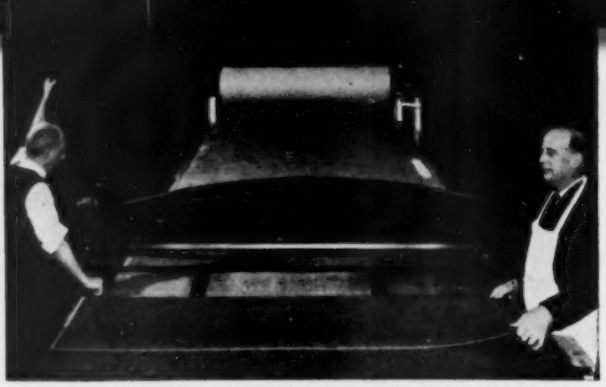
This is the second in a series of articles designed to interest and inform architects on the techniques and scope of linoleum opportunities open to them with modern linoleum floorcoverings.

linoleum contractors' techniques

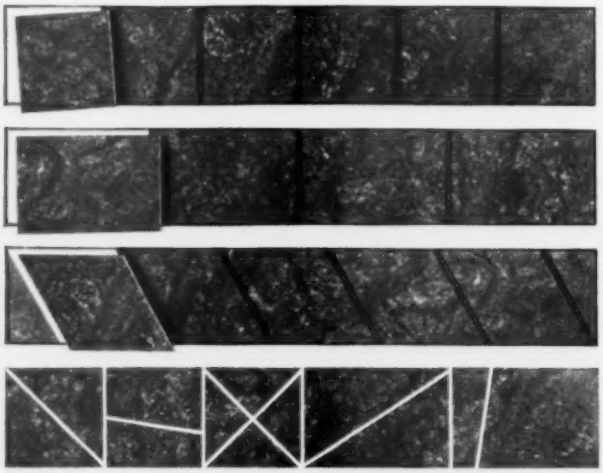
To an increasing extent in the last few years, flooring contractors have cut linoleum into tiles instead of laying it in the form of sheet; some of them say that they use tiles for 90% of their work. This article explains some of the reasons for the change and suggests ways in which the architect can turn this new flexibility to advantage.

Linoleum in sheet form is still cheaper to lay when large unobstructed areas are to be covered; but when faced with complex outlines and central pillars, especially in cramped areas, flooring contractors have found that they can install tiles with very little waste of material, and at costs that are competitive with sheet linoleum. It is here that some knowledge of the contractors' techniques and working methods can help the architect to design interesting floors and still keep down costs.



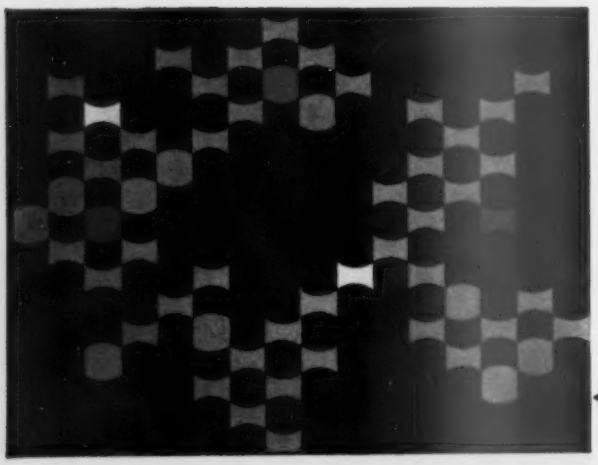
Photos of guillotining and die-cutting: Courtesy E. J. Elgood Ltd.

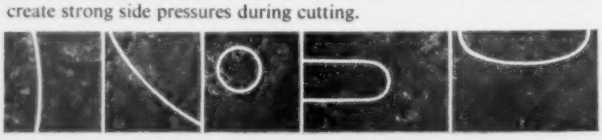
Cutting tiles The contractor uses a guillotine to cut 'slabs' of linoleum across the roll, wide enough to allow a small margin for trimming the tile later. The tiles themselves can be hand-cut by knife—a slow and expensive process—guillotined, or die-cut.



Guillotining Hand-operated or power-driven guillotines can cut squares, oblongs and triangles almost equally economically.

Die-cutting Some contractors have semi-automatic machines that cut tiles up to 18″ square in one movement. These machines also accept special dies to cut other shapes—such as those below—simultaneously with the rectangular tile. (Both parts of the tile should be used in the design to minimise waste.) The design of such shapes should avoid running the shaped cutter into the corner of the tile, where it would create strong side pressures during cutting.





Strip cutting Lacing strips and border strips, in widths ranging from ½-inch to 18 inches, are used to form decorative effects or borders. (For use as borders, they are cut slightly wide to allow for fitting to irregularities of the wall line.) The cutting machine slices almost through the thickness of the linoleum to make the strips, which are then finally separated as required by the layer on site.

Economical tile sizes Since linoleum is delivered in rolls 72 inches wide, contractors find the following sizes the most economical to cut:

NOMINAL: * 9 inches, 12 inches, 18 inches, 24 inches, 36 inches.

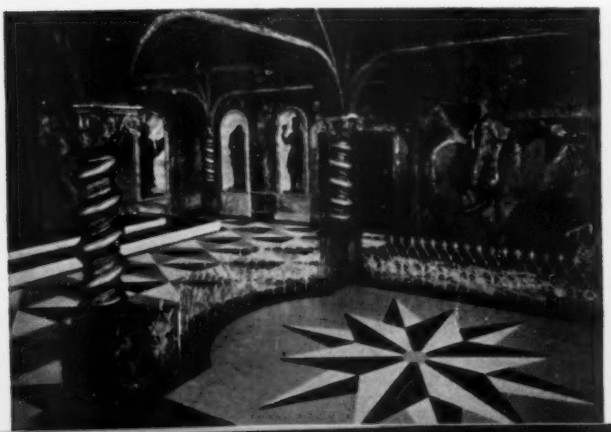
* *Actual sizes are approximately ¼-inch less than the nominal sizes of all purpose-cut tiles.*

THE USES OF SHEET LINOLEUM

This article does not, of course, set out to show that tiles have entirely replaced the traditional way of laying linoleum in sheet form—even where the architect wants to introduce designs in his floor. Below are three ways of using sheet linoleum in individual situations:—

Hand-cut designs Linoleum is easier than most floor coverings to cut into individual designs, and cutting by hand offers the designer the greatest possible freedom of treatment in producing a spectacular floor like the one shown below. At such a focal point—it was, in fact, John Piper's 'Baroque Room' in *The Observer's* Film Festival—the extra cost would be amply justified.

Courtesy Design magazine



IH SYMBOL DESIGNED BY RAYMOND LOEWY
Courtesy International Harvester Company of Great Britain Limited

Architects: *Albert W. Moore & Son*
Flooring Contractors: *The Lino-Tile Co. Ltd*

Hand-cut motifs Most contractors employ craftsmen who will enjoy reproducing in linoleum a motif like this one, laid in the entrance hall of International Harvester's offices in City Road, London.

Repeated motifs hand-cut by template For special purposes, the contractor can make a hardboard or metal template to cut out several motifs—and the corresponding spaces for them in the background.

NAIRN DESIGN BOOK

A full-colour book illustrating new directions in floor design will soon be available to all interested architects. If you would like to receive a free copy immediately upon publication, please write to: Michael Nairn & Company Limited, P.O. Box 1, Kirkcaldy, Scotland.

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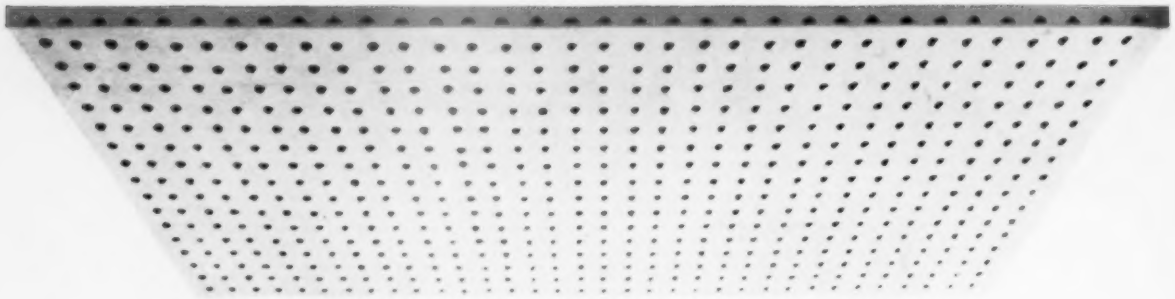

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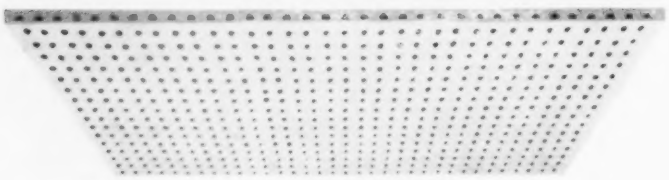

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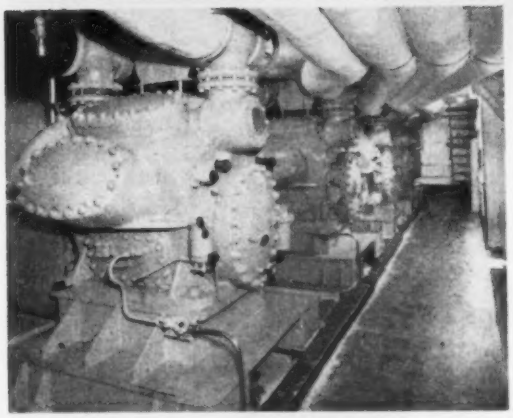

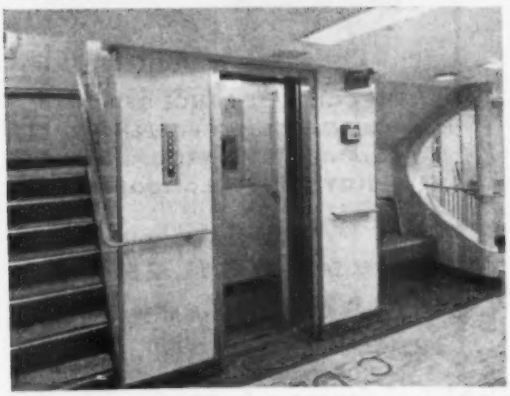

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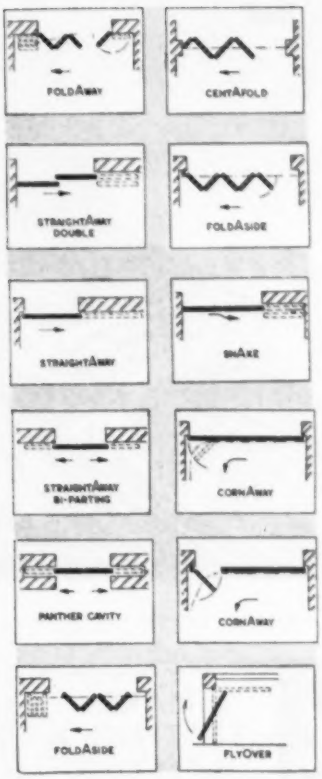

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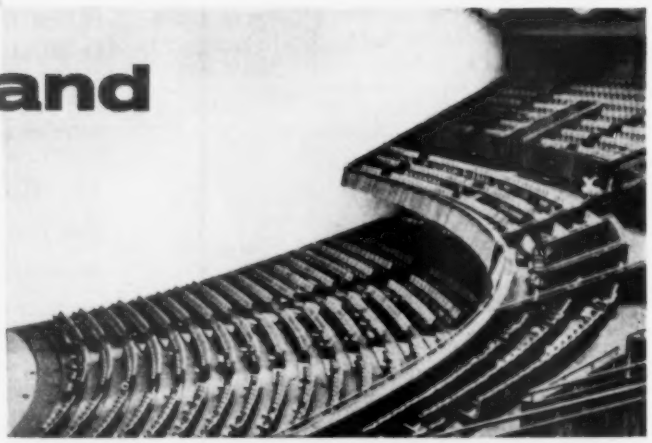

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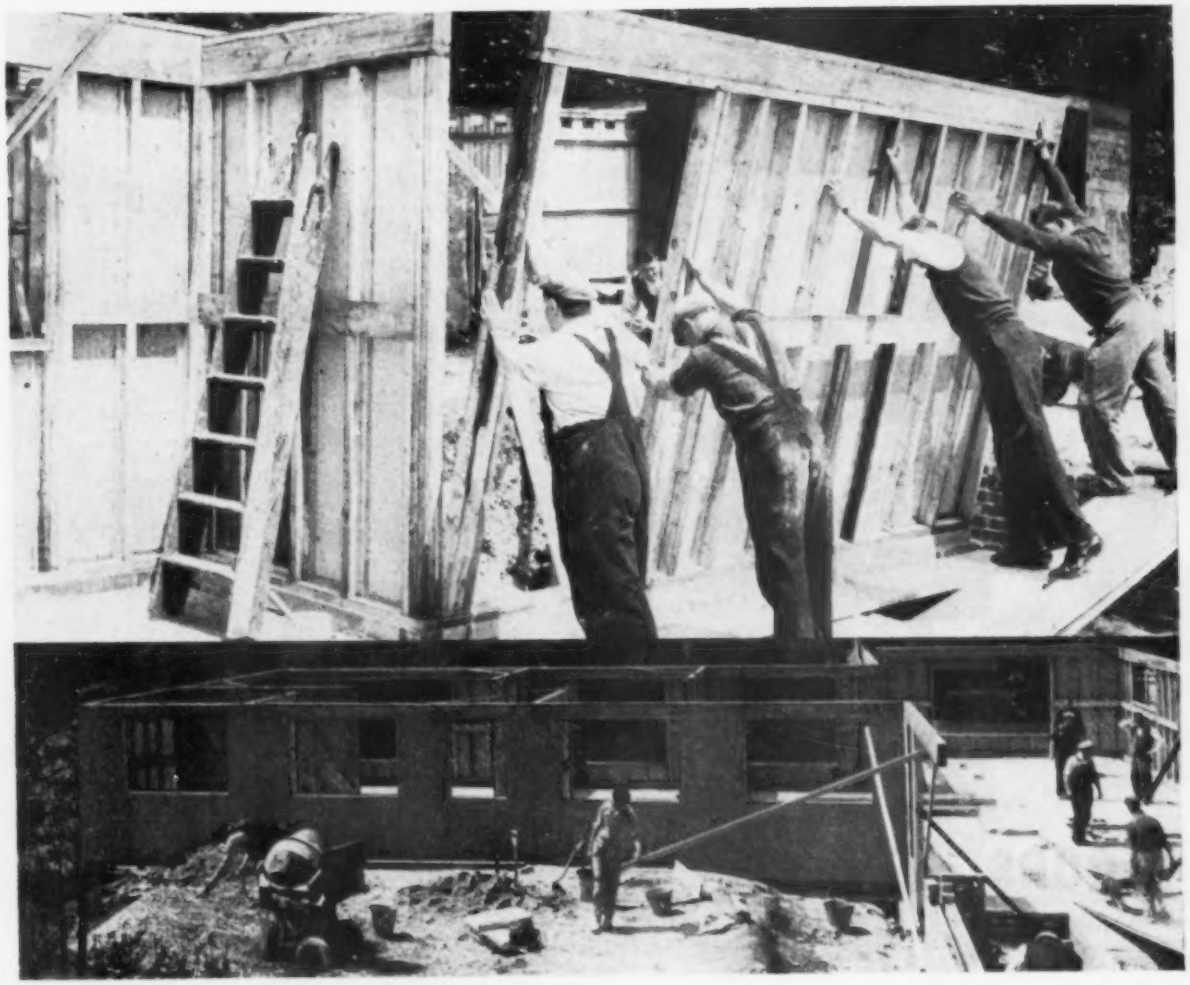

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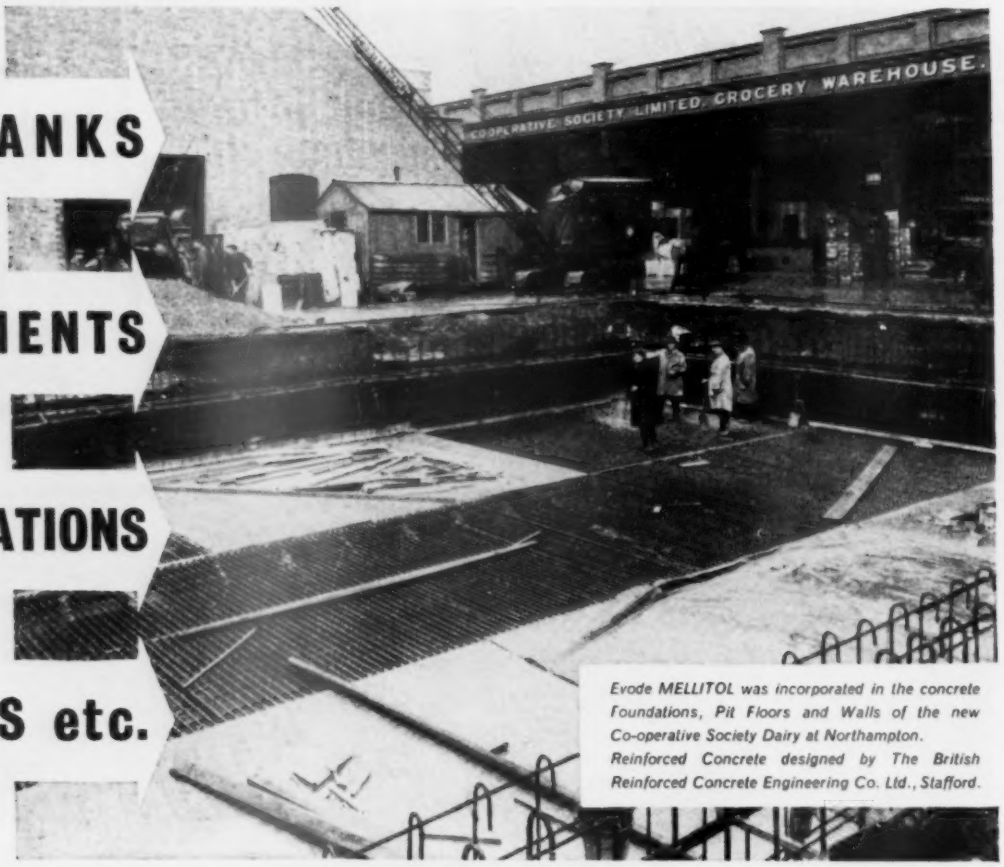

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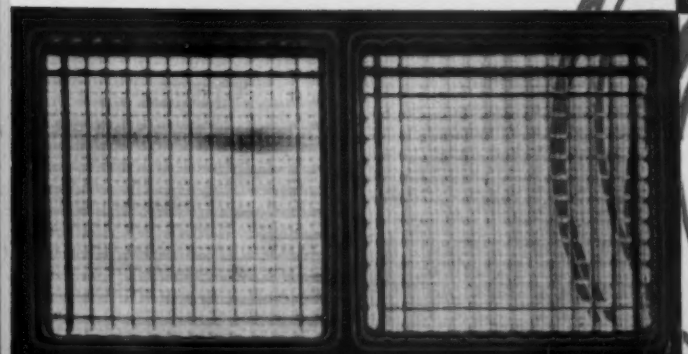

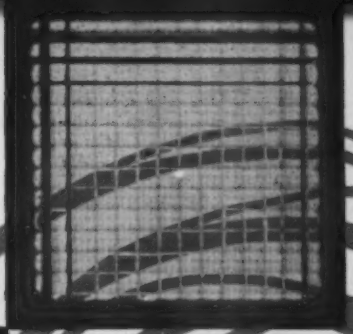

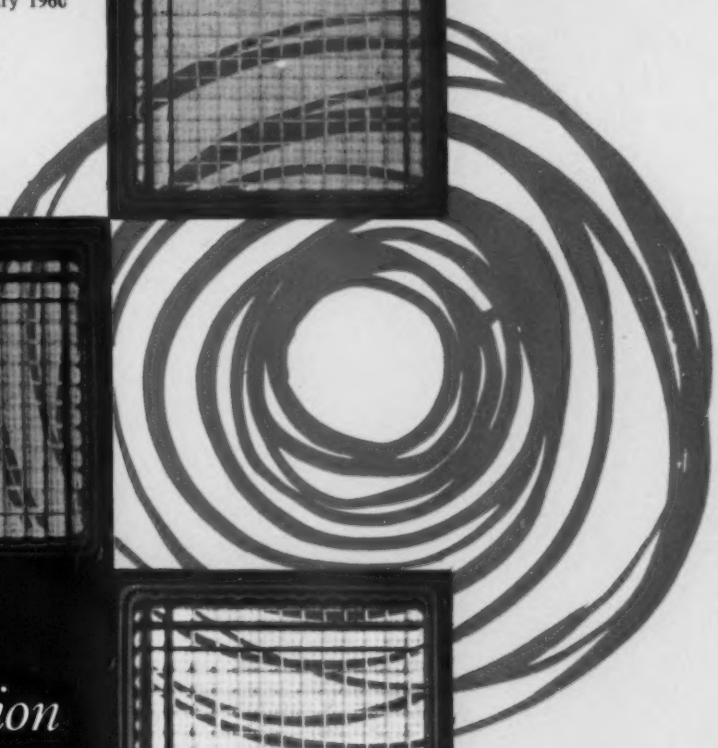

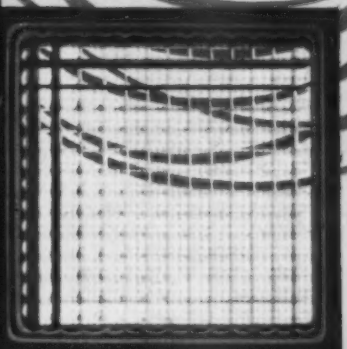

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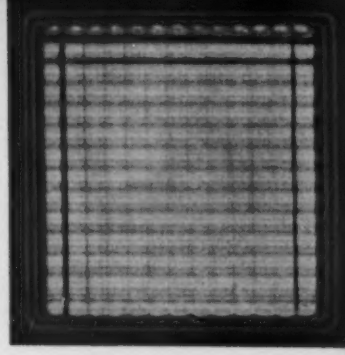
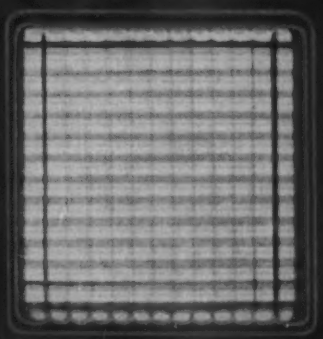
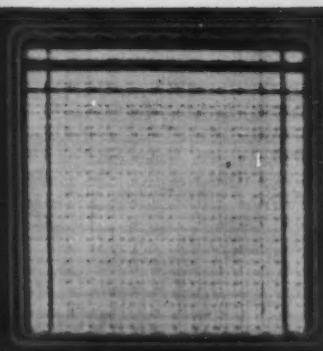
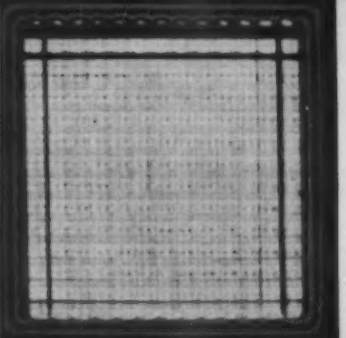
deeper light penetration
more even distribution









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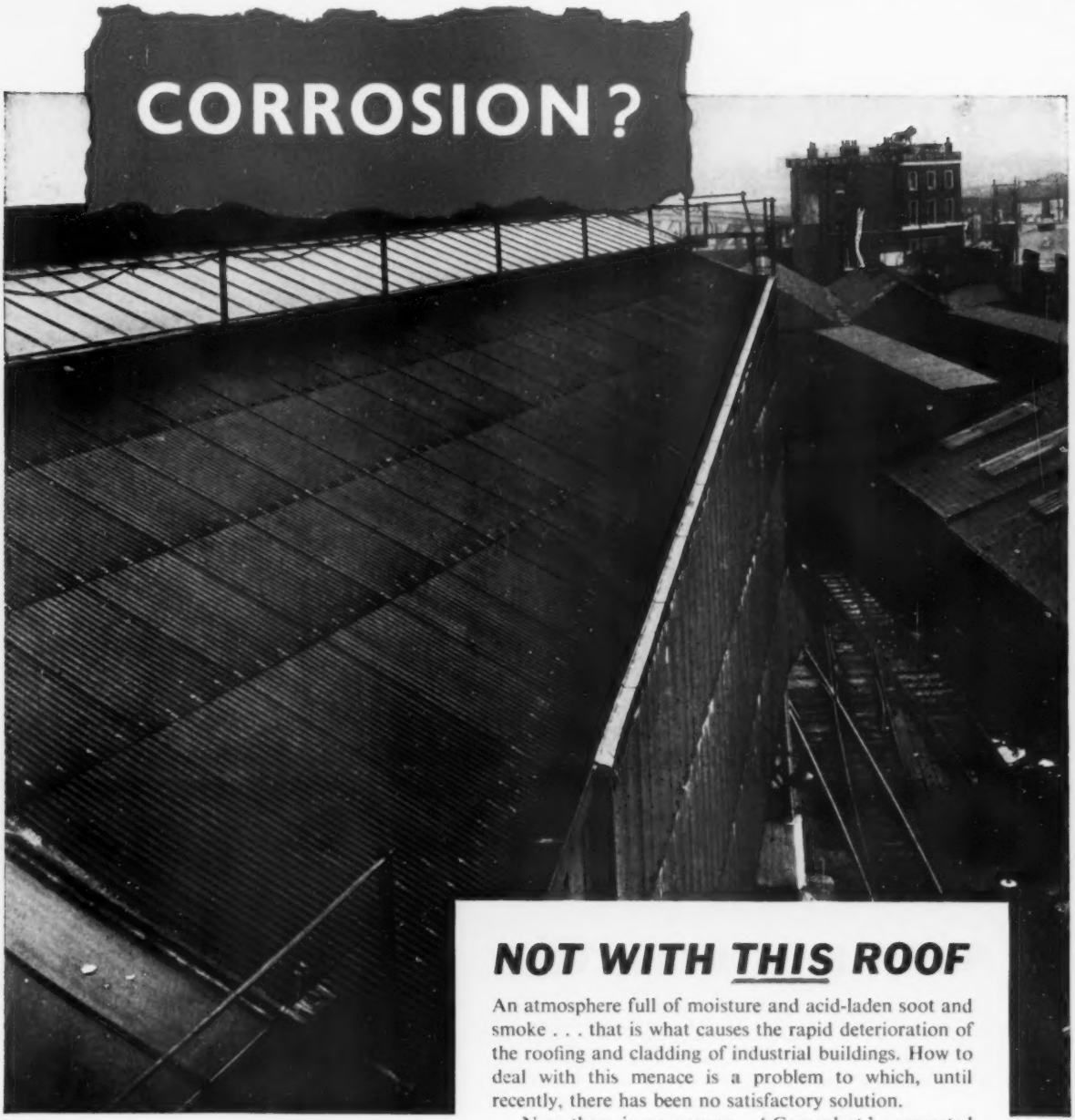

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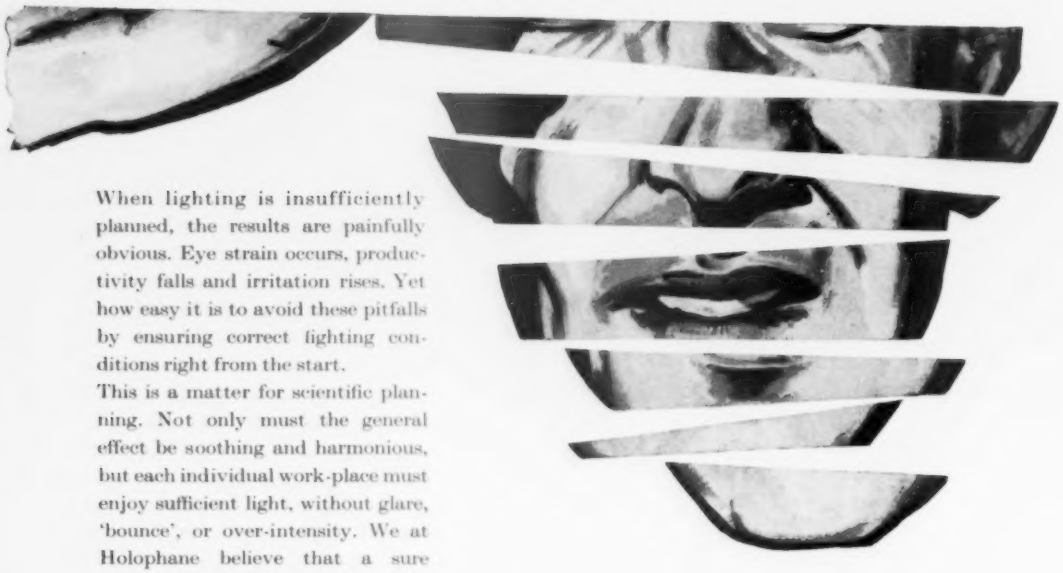

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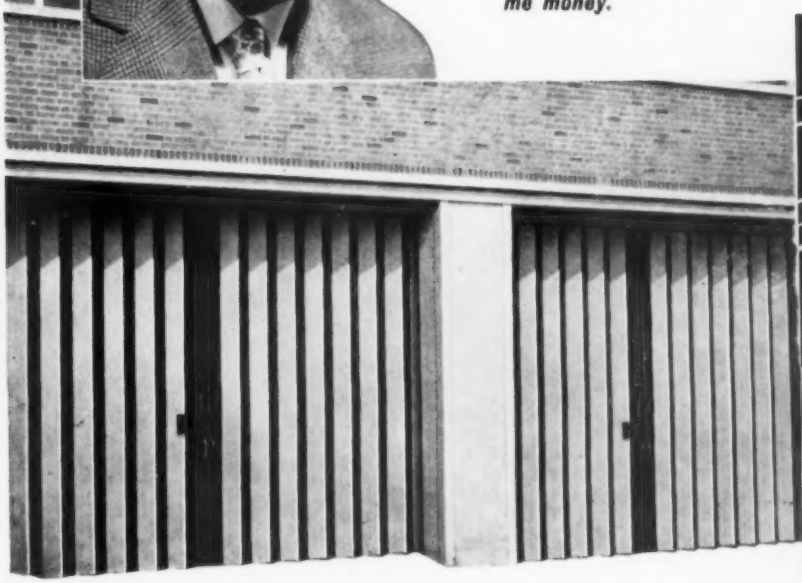

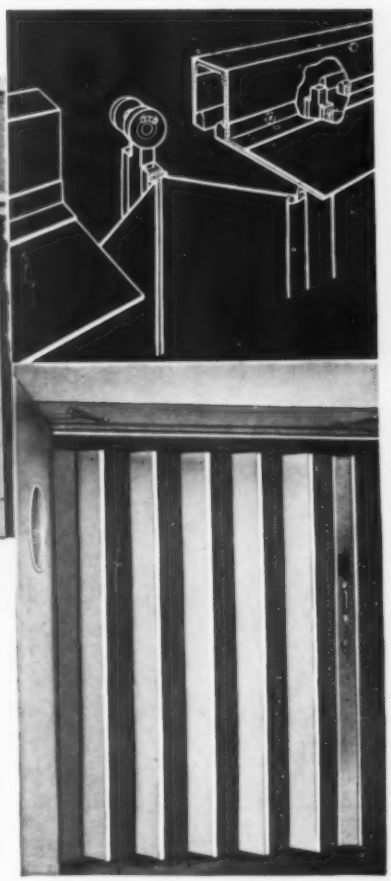

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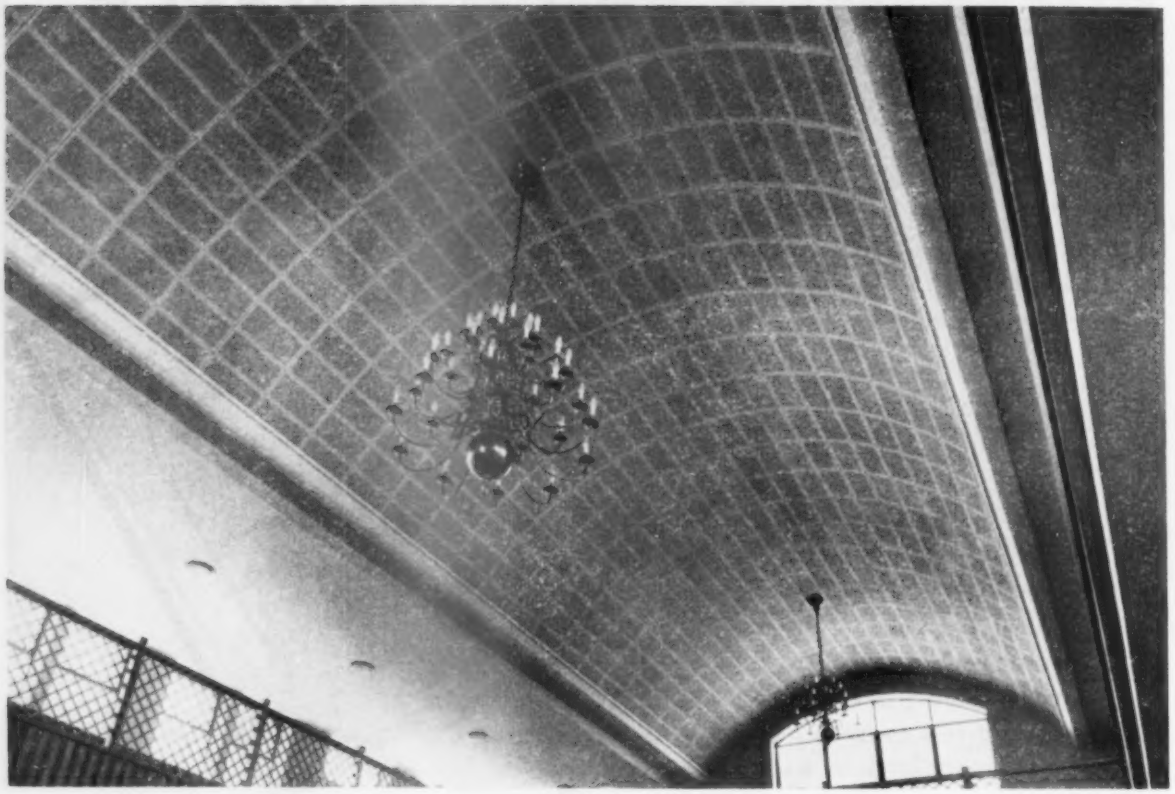

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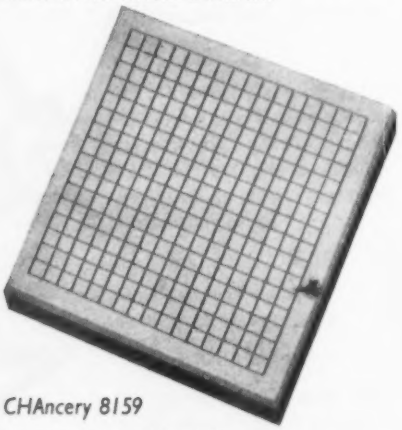

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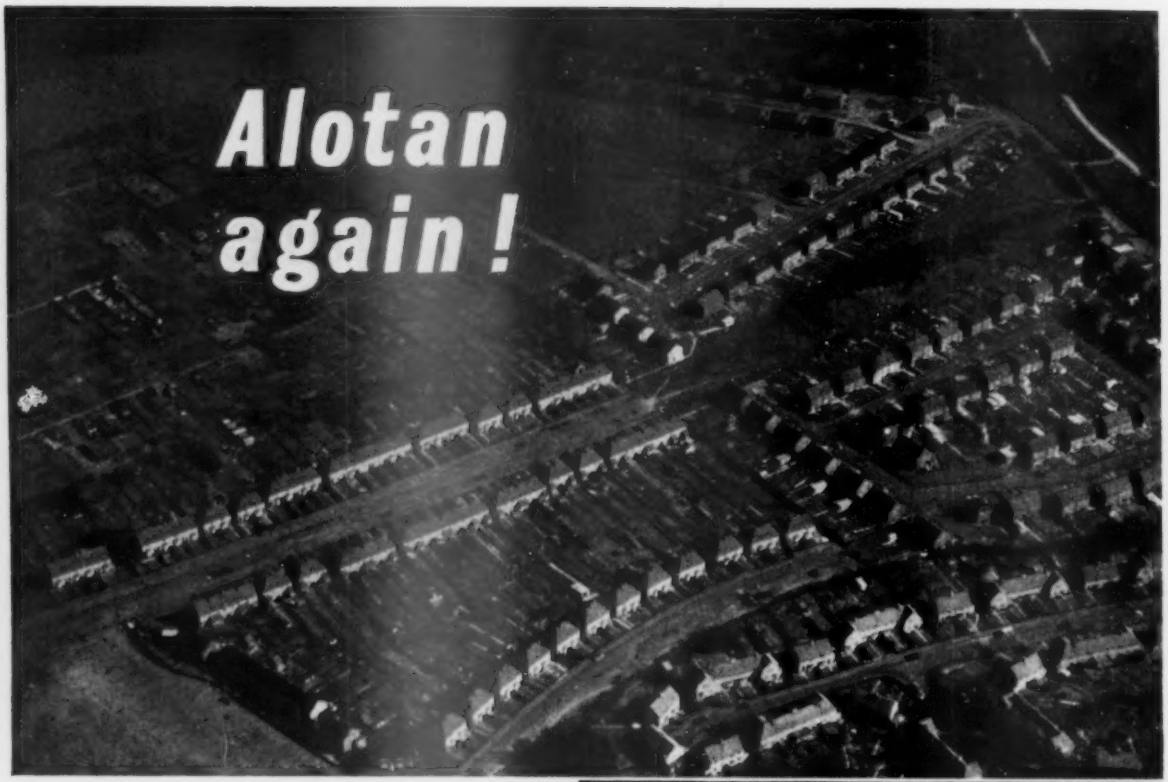

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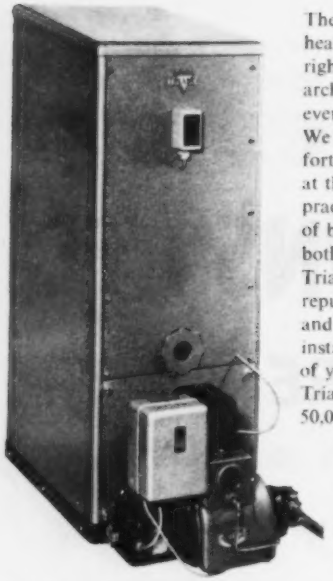

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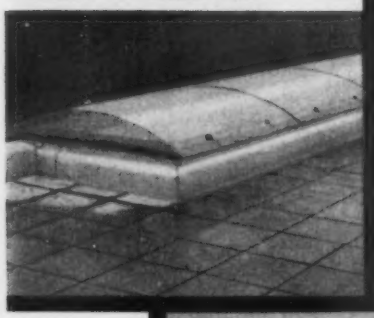

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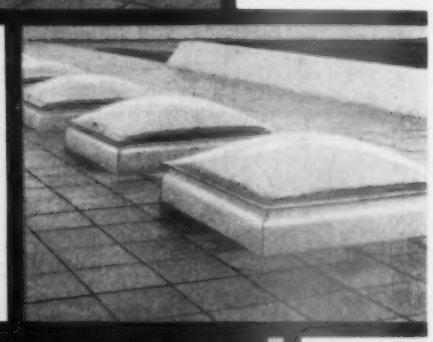
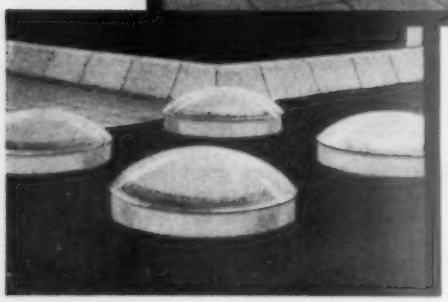


Standard rectangular Cox Domes



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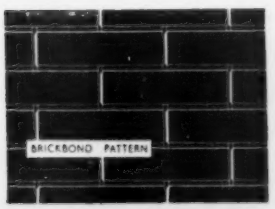

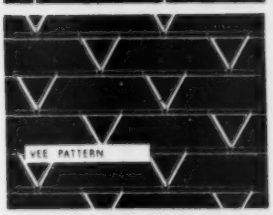

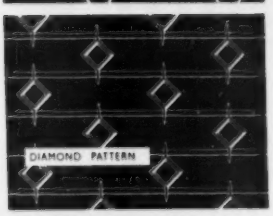

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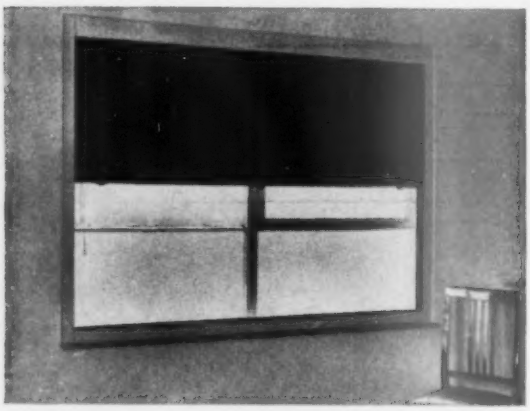

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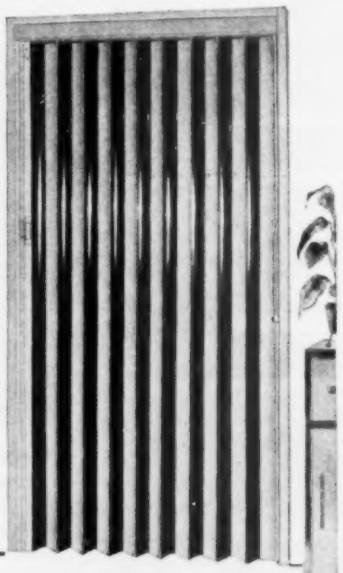

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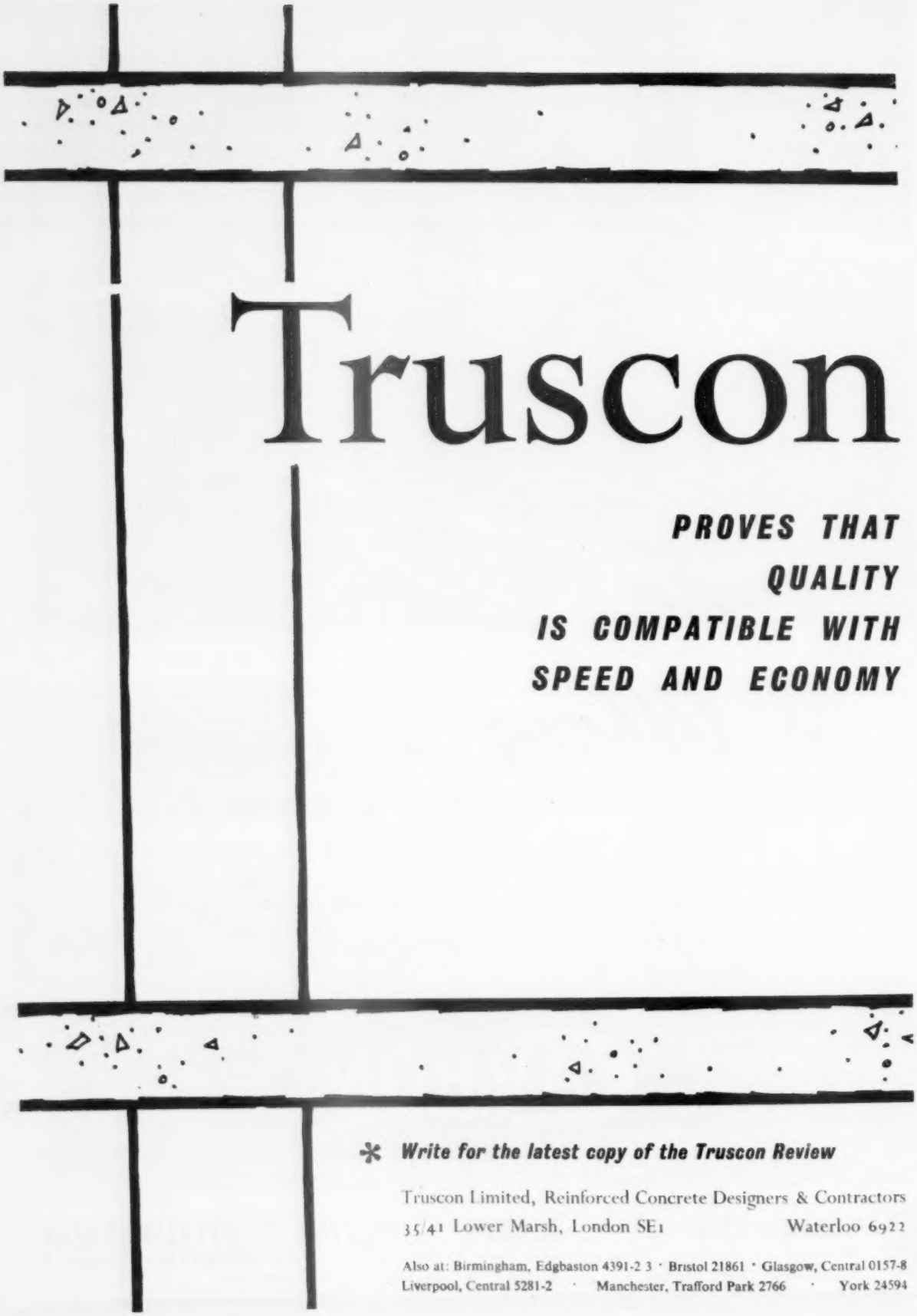

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PRIZES NOT PRIZED

IT has been obvious for many years that something is very wrong with the R.I.B.A. prizes. Every year the Critic says so and every year everyone who has bothered to go to Portland Place agrees that really we must get down to it.

Here is something for the new brooms at the R.I.B.A. to sweep. The original donors would be the first to urge them on. Prizes which no one bothers to compete for are an insult to them and to the corporate intelligence of the R.I.B.A. Students in any case tend to think of their elders as frowsty fuddy-duddies and the present prize structure may tend to confirm them in this.

What we need is a basic re-examination of what prizes are intended to do; what useful characteristics they foster; what students are interested in; what architectural ideals they follow; what inducements are calculated to arouse their enthusiasm. We need in fact a piece of consumer research.

Having done this we might go on to inquire what qualities future architects are likely to need to serve their fellows more effectively. These qualities are by no means the same as they were when many of the prizes were originally founded, and it is surely unrealistic to aim at the wrong targets. Investigation would also be needed into the different ways a given sum of money can be used to acquire knowledge, broaden horizons and encourage all those activities which help to make an architect.

Perhaps the R.I.B.A. should then consider how the mechanism of prizemanship could be altered to fit into present-day conditions. There are more ways than one of deciding who is the best man in a given set of circumstances, and there are many techniques which could usefully be considered. Specialist advice from educational theorists and others would almost certainly be needed and indeed the whole inquiry would benefit from carefully co-ordinated advice from outside. Professional institutions are too often closed intellectual organisms which need cross fertilization of ideas if they are to continue to evolve.

These studies might well lead to some surprising conclusions.

They could hardly fail to transform the whole situation and students might once again begin to regard winning prizes as an exciting pastime.

D

EVENTS AND COMMENTS

CANADIAN VISITORS

A party of about 80 Canadian architects, engineers and concrete men, some accompanied by their wives, has been in this country for the past two weeks, under the guidance of the Cement and Concrete Association. If professional affixes are anything to go by, there were about 20 architects, 30 engineers and 15 members of the firm of Supercrete Ltd., who arranged the trip from the Canadian end. Mr. Joseph Boux, president of the firm, was the leader of the party. The R.I.B.A. held a reception in honour of the visitors at 66 Portland Place, during the second week of the visit. Some of the impressions of Mr. Ernest J. Smith, one of the architect members of the party, are interesting. For instance, he noticed great advances in prestressed and *in situ* concrete techniques, and was surprised at the small amount of steel-framed building he saw going on. Much building site organization appeared haphazard, and he saw many instances of two men doing one man's job. Heating and plumbing services seemed much underdeveloped, compared with North American practice. Mr. Smith thought L.C.C. housing most impressive, and he described the site planning at Roehampton as "superb". On the other hand, he thought much of the finishing left a good deal to be desired, although he realized that this must be related to the economic structure of the estates.

BUILDERS' ANNUAL PARTY

Abner and Astragal shares again hardened on Wednesday, following a fleeting mention to these almost unread columnists by the Minister of Works, Lord John Hope, who was guest of honour at the N.F.B.T.E. annual dinner and ball at Grosvenor House the evening before.

My agent, who was present at the dinner, reports that the speeches were uniformly good. The Minister, responding to the toast of the Government, proposed by the president, said he would like to see two more societies added to the fair share of organizations which the building industry already had: a Society for the Protection of Preplanning and the Friends of Firm Price Tendering. He thought that the Government policy of slow, slow, quick, quick, slow was probably pleasing to the ladies.

The total output of the building and civil engineering industries in 1959 was, the Minister said, about the best that could be achieved, but there had been shortages of work in some parts of the country and a surplus in others. The prospect for 1960 showed there might be as much as a 10 per cent demand above the 1959 output, but the amount of work done would probably be no greater than in 1959, because of the uneven regional distribution of work. He ended on this note: "Let us make certain that the building industry in 1960 sets an example to the rest of the country in resisting inflation."

Mr. Prosser, the builders' president, whose swan-song it was, spoke with unusual freshness and vigour for a president on the eve of retirement. Without disclosing his own political affiliations, he welcomed the Government's return to office: a recognition of the fact that the Government's performance had enabled everyone to enjoy fully the fruits of peace and prosperity. David Woodbine Parish, whom I congratulate on becoming the 1960 president, welcomed the guests in what he called "this example of neo-functional, perpendicular architecture". He told architects and builders that they must not forget they were the servants of the public, and did not mention apprentices once. Sir Harry Pilkington, president of the National Council of Building Materials' Producers, responded for the guests.

NEW WALLPAPERS

Shows of new wallpapers are now treated with almost as much solemnity as fashion shows, and, my goodness me, the tastes of the wallpaper men are just as fickle as those of the *grands couturiers*. The new architects' book of 100 Crown wallpapers is full of embossed papers, printed in our old friends the pastel shades. At first glance it looks like a pattern book of thirty years ago. On the other hand, the Wall Paper Manufacturers' Palladio range continues to develop in design and colouring. Not all the developments are, to my mind, good. We seem to be heading back to the rural scene, Kew Gardens and the Maypole. Some of the big floral and geometrical designs are fine, but I should hate to have to live with some of the landscapes.

HENRION AT THE I.C.A.

It seems to me curious that Henrion's very distinguished one-man show should be held at the Institute of Contemporary Arts, which has a very specialized public and which, for the most part, favours the obscure types of art with very limited appeal. There is nothing obscure about Henrion, who is one of our very best graphic designers. His work is easily understood and is, for the most part, gay, although, when necessary, it can also suggest horror. His appeal is to the masses, for a great deal of his work is intended for the hoarding or the advertisement page. The exhibition immediately impresses by its variety, up-to-date-ness and its range. There seems to be almost no industry whose "face" Henrion has not helped to improve. My first impression was one of wonder for, although I know him and his work well, I had not realized just how many of the familiar trade symbols were his designs. If you cannot get to the exhibition I suggest that you

Canadian architects at the R.I.B.A.'s cocktail party, left to right: the president, Basil Spence, receiving a vote of thanks from Canadian architect R. F. Fraser, M.R.A.I.C., of Mickelson, Fraser & Haywood, Mr. J. F. Boux, president and general manager of Supercrete Ltd., and Mr. E. J. Smith, M.R.A.I.C., of Smith, Carter, Searle & Associates, Bill Allen, from the B.R.S., Mr. E. Holman, and the Deputy High Commissioner for Canada, Mr. G. Ignatieff

should buy the very handsome illustrated catalogue for 10s; it is, in itself, a handbook of contemporary graphic and industrial design.

REGENCY PRESERVED

Anyone who knows his Bloomsbury will be familiar with Woburn Walk, which used surely to be called Woburn Buildings? Whatever its name, it is a broad, pedestrian pavement which connects Tavistock Place and Duke Street, where the Artists' Rifles live. For about two-thirds of its length it is flanked with charming bay-windowed shops, all originally to one design. The buildings over the shops form a continuous façade and are decorated with Greek detail and are very charming. Even thirty years ago the property had deteriorated and many of the small panes of glass had been removed to make way for one-piece shop windows. Glazing bars far heavier than the originals had been used in other windows to replace those that had failed. Some of the shops had become the living rooms of private dwellings, while others housed the poorest kind of shop. All the same, the group retained its architectural interest while becoming increasingly dilapidated. The war hastened what seemed likely to be the end of this unique shopping centre, and at one time buildings on both sides looked ripe for demolition, if not actual collapse. Not long ago the buildings on the southern side of the pavement were sold to a developer, but the St. Pancras Borough Council, usually more associated with political struggles than the preservation of architecture, stepped in and obtained a preservation order, after enlisting the support of experts, including the Georgian Group and Sir John Summerson. The council then bought the buildings, eight shops in all. Then the borough engineer, using the council's direct-labour building department and advised by the same experts, proceeded upon the lengthy and expensive task of restoration. The work was finished last year and is a great credit to all concerned. Not only have the original mouldings and other details been faithfully reproduced, but good tenants have been found, and this has done a lot to restore the sense of community to the place. Unfortunately, the council has, as yet, only dealt with one side of the Walk. Thirteen shops remain on the other side, which turns a corner into Duke Street. From the outside, at least, these buildings appear to be in fair repair, though each has its own decorative scheme and much of the detail is missing. The corner shop, the pride of the Walk, is occupied by the district surveyor, and several of the others are no longer shops. There appears to be no immediate danger to this side, but it would be good to think that there was a chance that they might receive the same treatment as their neighbours on the south side. I hope that the St. Pancras Borough Council have not been discouraged by their experience of preservation work. I would like to congratulate them and to encourage them to acquire the north side and to bring the condition of its buildings up to the very high standard of those which they have so admirably restored.

DECORATIVE VITREOUS ENAMEL

It is now possible to reproduce a number of techniques, including hand printing, photo stencils and air brushing on vitreous enamel sheet. To demonstrate this, Dorothy and Francis Carr have designed an experimental panel which has been made with the co-operation of the Vitreous Enamel Development Council at the works of National Enamels Ltd. Three different colours were used, and the panel was first fired to fuse the basic colours onto the steel. The pattern was then applied and the panel fired again. This fused the complete pattern directly into the surface of the steel. In the right hands this technique has great possibilities, but remembering the virtual indestructibility of advertisements which used to be displayed on railway stations, this may prove a more than usually dangerous tool in the hands of the bad designer.

HELLENIC GASTRONOMY

Epicure holidays are the business of the Gastronomic Travellers' Club, whose president is ex-Bartlett-Boy Merlin Minshall. Looking through the list of tours I find the restaurants and vineyards mentioned in large type, and the historical monuments, such as St. Peter's and the Palazzo Vecchio, in small print. This is at least honest, for many people have been heard to admit that they really go abroad for the food. To eat one's way across Europe may not be the ambition of everyone, but it has its attractions. My only fear would be whether I could last the course. Under one's own auspices one can adjust one's daily intake, but lunch "Au Roy Gourmet", washed down with two vintage burgundies, followed by dinner at Lapérouse, after a "sampling" of aperitifs, would, I am sure, fix stronger men than I. Lunch at Chez Mercier the next day, with three vintage Médocs, and an afternoon at the Folies Bergères would probably find my place empty. Except, of course, that having paid for the whole trip I should feel bound to see it through, particularly as there would sure to be some base spirit of competitive bravado among members of the party.

One of the tours organized by Mr. Minshall is known as the Hellenic Epicure Cruise, and this year Professor Sir Albert Richardson has promised to accompany it as guest lecturer. I hope the lectures will be in the mornings, for after a tasting of Turkish wines and a Turkish country lunch at Halicarnassus in June, I doubt whether even Sir Albert could keep me awake. Lunch at Yerofinkia's, in Athens, sounds interesting, but an Athenian dinner at the King George Hotel might easily prove to be French cooking, Soho style. I shall look forward to Mr. Minshall's gastronomic tour of China.

ABNER

Jack Lukey, chief structural design engineer for Keith Consulting Engineers Ltd., Mr. N. Reimer, M.R.A.I.C., of Macleod & Reimer, Mr. S. E. Lindgren, M.R.A.I.C., of Pratt & Lindgren, Mr. R. R. Zimmerman, the resident engineer, Dept. of Public Works, Manitoba, Mr. R. Diamond, sales engineer of Supercrete Ltd., Mr. R. H. Uren, R.I.B.A., council member, Mr. D. Dryborough, and Mr. R. H. Banks, design engineer of Supercrete Ltd. Guests listening to the vote of thanks

NEWS

R.I.B.A. Course on Hospitals and Hospital Exhibition

The present hospitals programme has been doubled this year and many more architects will be working on hospital design for the first time, both as private architects and in the Regional Hospital Boards. For this reason the R.I.B.A. are to hold an orientation course from July 11 to 15, 1960, and a new hospital buildings exhibition from July 9 to 23, 1960.

The object of the course is to give architects background information about the health service, the different types of hospital treatment, the different hospital users, e.g., patients, doctors, nurses, almoners, administrators, engineers, caterers, the authorities concerned with approving hospital designs and the latest research into hospital planning.

The course is specifically designed for architects who are *not* already experienced in hospital design. It is to be organized by the R.I.B.A., at the suggestion of, and in collaboration with, the Ministry of Health, the Department of Health for Scotland and the Regional Hospital Boards.

The exhibition is being arranged by the Ministry of Health and the Central Office of Information, and will be open to the public.

Application forms for the conference will be inserted in the May issue of the R.I.B.A. Journal and will be available from Anthony Williams, assistant secretary, R.I.B.A., as from May 1, 1960.

High Rise at the R.I.C.S.

There were so many architects in the audience, that the surveyors could hardly get into their own building last week to hear Professor Matthew's paper. It was interesting, as it was the first on the subject, after the Piccadilly inquiry and, although he did not refer to it directly, much of what he said was obviously coloured by the problems raised by the Monico building.

He said that there was a strong tendency, even in America, towards a height of 20 to 30 stories. Floor areas of less than 10-12,000 sq ft were uneconomic and these two facts, taken together, resulted in rather stumpy proportions. It was unrealistic to expect the elegance of the towers, spires and campaniles of the past. Modern high buildings were something different in kind.

High buildings were enormously dominating and they should be carefully sited as focal points in a town. Architects presented with a problem that called for a high building should themselves look for a suitable site. Planning authorities should go beyond their development plans and define areas suitable and unsuitable for high buildings.

London was not typical of the country as a whole, in the amount of planning thought given to the problem. Comprehensive planning hardly existed in the provinces and he foresaw a great danger there of the uncontrolled use of height. We were only on the fringes of the problem and much further thought was needed.

The speakers afterwards were, Sir Howard Robertson, who confessed that he had solved none of the problems of building high and found that the higher the tower, the squatter it appeared; Mr. Fiske, the chairman of the L.C.C. Housing Committee, who said that high residential buildings were only possible economically if they were associated with a lot of low ones to balance the cost; Brian Anstey, who referred to the "podium and playing card" type of design; and Leslie Lane, of the L.C.C., who said that planning authorities must be prepared to refuse an increasing number of high buildings if they were not in the right place.

Company to Sponsor Multi-Storey Garages

John Laing & Son (Holdings) Ltd. and Lex Garages Ltd. have agreed to form a new company, Laing Lex Ltd., for the purpose of sponsoring multi-storey and underground car parking facilities in London and the major cities of Britain. The object is to make a positive contribution towards solving the problem of car parking in congested areas. A number of large-scale parking garage projects are under active consideration, details of which will be announced in due course.

Voluntary Code of Standards for Advertising: Committee Set Up

The consultative committee which has been set up to administer the voluntary code of standards for advertising on business premises, mentioned in last week's issue, has met under the chairmanship of Lord Luke.

The object of this meeting was to discuss the constitution, terms of reference and finance of the committee and to consider plans for launching the code in the middle of March.

Useful Suggestions to Speed Up School Building: Minister's Meeting

At the meeting between Sir David Eccles, Minister of Education, and representatives of the local education authorities and of the churches to discuss ways of stepping up the momentum of the education building programme, many useful suggestions were made in the course of a full discussion. For example, the Ministry intend to give earlier notice of future school building programmes, so that preliminary work on the acquisition of sites, preparation of plans, etc., can be started in good time.

Those present included representatives of the County Councils' Association, the Association of Municipal Corporations, the Welsh Joint Education Committee, the Association of Education Committees, the London County Council, the Church of England Board of Education (Schools Council) and the Catholic Education Council.

Appointments to C.o.I.D.

Duncan M. Oppenheim, KT., HON. A.R.C.A., has been appointed to be chairman of the Council of Industrial Design in succession to Sir Walter Worboys. The President of the B.o.T. has also appointed W. L. Mather, Thomas G. Coughtrie, Alastair J. F. Morton, Peter F. D. Tennant, Mrs. Gaby Schreiber and Mrs. Grace Wyndham Goldie to be members of the council. He has reappointed R. H. Crawford, Whitney W. Straight, Oswald B. Miller, Kenneth A. Noble, Elkan Simons, A. Everett Jones, Professor Misha Black and J. M. Richards as members for a further period on the termination of their existing appointments.

R.I.B.A. Chief Information Officer Appointed

Malcolm MacEwan, chief assistant editor of the *Architects' Journal*, has been appointed the R.I.B.A.'s chief information officer, and will take up his duties in the latter part of April this year. He will assume overall responsibility for external relations, including Press, publications and public relations, as well as internal relations which cover liaison with allied societies and members and the *R.I.B.A. Journal*.

Mr. MacEwan is aged 48, and was educated at Rossall, Aberdeen University, and Edinburgh University. He qualified as a solicitor in 1937, and practised until 1941. On ceasing to practise as a solicitor, Mr. MacEwan became a freelance journalist. From 1943 to 1956 he was with People's Press Printing Society Ltd. In 1957 he joined the Architectural Press. Throughout the period 1941 to 1960, he has been a freelance journalist and more recently has appeared on TV and radio.

N.F.B.T.E. ANNUAL GENERAL MEETING

THE National Federation of Building Trades' Employers held their annual general meeting at the Royal Institute of British Architects, on Wednesday last. Mr. D. E. Woodbine Parish was invested as president for 1960 by the retiring president, Mr. T. V. Prosser. Herr Becker (president, International Federation of Building and Public Works) and Mr. Gerard (president of the Scottish Federation) were welcomed as representatives of kindred organizations. Silver and bronze medals were presented to craft apprentices and building trainees. The annual report was considered and points from it are mentioned below.

Building Land

The retiring president was concerned about how little land was being made available to builders for building homes. A committee had been set up and is expected to report soon on this matter.

Materials, Supplies and Prices

Bricks and steel have been in short supply. The Minister of Works has been told by the federation of the seriousness of the situation. Good weather and the increase in building work, due to the lifting of credit restrictions, are the main causes. Brick stocks are now at their lowest level since the war.

Working Hours

The 44-hour week was agreed in principle as a standard throughout the country, as from October, 1960, by the National Joint Council. The working week can be reduced from 5½ days to five days.

Demarcation

There have been a few unofficial strikes, but the industry has not been seriously affected by them. The repeated troubles arising from the inability of the plumbers' and heating fitters' unions to reduce their long-standing differences have continued. The troubles have been aggravated by the unfortunate practice of certain architects in nominating the same sub-contractor to carry out both heating and plumbing work

Joint Contracts Tribunal

The proposed revisions to the R.I.B.A. form of contract were found to be acceptable to the Joint Contracts Tribunal except in one particular. Since the architect is entrusted with such wide and arbitrary powers, it is essential that the contract shall continue to provide for the adjustment of the remuneration to be paid to the contractor so that the architect cannot alter the work to the financial detriment of the contractor, notwithstanding any defect in the original design or specification. Architects should be responsible for their own mistakes.

Joint Consultative Committee

The Joint Consultative Committee has now published "A Code of Procedure for Selective Tendering".* This code is based on and amplifies the recommendation of the Howard Robertson Committee. It is to be hoped that this code will become established as a basis for tendering for all building work.

Apprenticeship

Speakers from the floor were greatly concerned about the lack of apprentices entering the trade. It was thought by some that, unless the number of apprentices were increased sharply, builders might put themselves out of business.

* See A. & B.N., September 30, 1959.

Mr. David Woodbine Parish, the 1960 president of the N.F.B.T.E.

Direct Labour

The direct-labour departments of local authorities, government departments, etc., were causing great concern. Speakers suggested that builders should tender in fierce competition with direct-labour schemes. The N.F.B.T.E. director said that the matter was in hand but would not disclose what he had in mind.

Accident Prevention

The reduction in the number of accidents achieved in 1957 has not been maintained. It is considered that the accident rate will not fall until all engaged in industry are prepared to give continuous attention to the development of safer methods of working.

New President, N.F.B.T.E.

David Elmer Woodbine Parish was born in Kensington, in 1911, and was educated at Sandroyd, Eton and Lausanne, Switzerland. He served a short general engineering student-apprenticeship in Manchester and subsequently undertook a period of whole-time technological education in building in the department of architecture, building and surveying at the Northern Polytechnic, London. He followed this by a three-year building and civil engineering indentured pupilship in London, with Holliday & Greenwood Ltd., being appointed as executive director at the age of 25 and resigning the position of chairman and managing director after a period of 28 years with that company, upon his appointment as chairman of Bovis Ltd., in the summer of 1959.

Mr. Woodbine Parish was president of the London Master Builders' Association in 1952 and its honorary treasurer in 1954-56. He has been a member of the N.F.B.T.E. Council since 1947 and was elected a vice-president in 1958.

Currently he is a member of the National Council for Technological Awards (Hives Council), the Ministry of Education's National Advisory Council on Education for Industry and Commerce, the Regional Advisory Council for Technological Education (London and Home Counties), the Industrial Training Council, the British Institute of Management, the British Association for Commercial and Industrial Education, and the Architects' Registration Council. He is honorary secretary and a councillor of the City and Guilds of London Institute. He is a Fellow of the Institute of Builders and of the British Institute of Management, has for some years been chairman of the L.M.B.A. Education Committee and the National Federation Management Training Committee. He has studied building education abroad and held numerous other appointments in building education, including the chairmanship of the National Advisory Committee for the Training of General Foremen in the building industry since its formation in 1947.

ROYAL INSTITUTE OF BRITISH ARCHITECTS

R.I.B.A. PRIZES AND STUDENTSHIPS, 1960

Michael Powell's Criticism of the Students' Work

THE R.I.B.A. critic is a parasite and a stooge; a parasite because he sucks up and sometimes destroys the creative work of others; a stooge, because he is the mouthpiece of the jury and does not, by tradition, take an active part in reaching decisions—he comes to you this evening to put them over.

My desire to interfere with the juries, I found difficult to suppress. But when they had gone home to forget their verdicts, they consoled me, I could collect their thoughts, distort them and publicly disagree with them. Very entertaining, but, to my sorrow, I have found that on every important point I have agreed with their judgments. How worthy and dull for me—and for you.

I cannot easily generalize on what I have seen, since the range of entries is so wide—an open-air theatre for an Italian nobleman, colour patterns in gypsy housing in Macedonia and a boating club and caravan park on a longing-to-be-spoilt part of our suffering south coast.

Last year, the critic, Edward D. Mills, was fierce and ended in hoping that the next year's critic would be able to sound a more cheerful note. I can—just a little more cheerful, and that perhaps due to my cheerful disposition. The number of entries for the prizes may have dwindled over recent years (not surprising, as the real value of some of these prizes has dwindled), but I find many of the examples of students' designs more robust, more sensitive and more adventurous than much of the work built today and admired in the magazines. I find much which is even quite practical, potentially. (I say "potentially" because a lot of the silly things could, with time and thought, easily be righted.)

What cheers me less is the progressive decline that so often follows. This is perhaps unkind tilting at the qualified section of the profession, but I am in good company. The critic of six years ago spoke alike, only more crisply, when he said: "I often wonder when I look at students' work why this high standard is not maintained when they go into the jungle of private practice". That critic was Basil Spence.

Why has this decline taken place so often, and how can you students resist it? Perhaps when battling with a live job for a live client, you are intimidated by the enormity of the responsibility and the weight of your professional dignity. I can only say, forget as far as you can professional dignity and concentrate seriously on architecture; be obsessed by it—as you often were as students. Do not be diverted by too many of the activities which lie on the fringes of architecture—by a few, maybe, to avoid Ivory Castledom, but not by so many that you scarcely have the time to design. Be adventurous. Your practical misjudgments are often made when timidity gets the better of intuitive judgment and enthusiasm. Leave yourselves enough time and energy not only to select what is best from the past, but also to think for yourselves, so that you produce your own work, not a paler version of others.

And now I had better get down to work and make my catalogue of many of the entries for most of the prizes. If what I say about some of the designs seems flippant and short, please forgive me. Time is short now, but I can tell you that, on the juries, time was not short. These many juries really worked and worried long and hard to arrive at their judgments.

Schools Prizes

Prizes for public and secondary schools—one for an illustrated architectural essay, the other for drawings of an existing building—total prize value, 20gn. There were three entries, which were poor and the jury could make no award; last year 13, no award. This is very sad. Perhaps, nowadays, the amount of money is not enough—perhaps there is not enough encouragement by the school authorities. What steps can be taken to stop these prizes petering out?

The award £10 in books is based on portfolios of work submitted by students from art schools and technical institutions. There was only one entry (J. Varnom, of the Manchester Regional College of Art), but the officers of the Board of Architectural Education thought that the work reached a particularly high standard, so Mr. Varnom wins the prize. Despite the lack of competition, he can feel that his win is a proper one.

Essay and Silver Medal

The R.I.B.A. Silver Medal (and £50) for the best essay on a subject of architectural interest is open to all members. Four essays this year—last year 11. No award. The jury felt that the entries were disappointing—competitors did not seem to appreciate that an essay is a literary form; a written architectural thesis is no substitute. The most promising entry which, however, was not considered quite suitable for an award, from "Leporello", was such a thesis—a useful and interesting piece of architectural research on Thomas Rickman and Henry Hutchinson, illustrated with good sketches and the author's own photographs.

Alfred Bossom Research Fellowship

For post-graduate research, open to all members. Eight applicants—the same number as last year. It was awarded to P. Manning. The jury recommended that in view of the evidence the winner should pay particular attention to the visual aspects of farm architecture. Also, they remarked on the excellent evidence submitted by T. L. Marsden, but felt that his proposed research subject offered limited scope.

Florence Architectural Book Scholarship

"To encourage and support the writing of books which will be useful to the profession"—had six entries. The jury felt that Professor Peter Collins, of McGill University, Montreal, with the synopsis of his proposed book, "Changing Ideals in Modern Architecture (1759-1950)", was an obvious winner. Professor Collins claims that previous histories of modern architecture, usually by art historians, are heavily concerned with stylistic development, placing architects and their works in neat historical niches. This history shows promise of debunking this slick arrangement and of worrying itself with the ideals and emotions of individual designers and groups of designers. It should be most welcome, and I only hope its style will not be as turgid and polysyllabic as you find in some of these histories, but has nice short words for simple souls like me.

Rose Shipman Studentship Trust

A big fat prize, £600, briefly and broadly described as being for "the study of architecture". Ten entries this year as against 17 last year. The money is awarded for research involving travel, research being that elusive thing "original work" and not just the painstaking cataloguing of other people's work. With most of the entries the jury felt that there was too much emphasis on historical ferreting out, and not enough on forward-looking research, the publication of which could be of real value to architects.

The winner, R. Leacroft, proposes to study theatres in the U.S.A. and Canada, and impressed the jury by giving clear evidence that he understands how to make an investigation and to advance knowledge of the subject.

The theatre is threatened by the cinema and, more especially, television, which can pour a lot of money into their productions. A new attitude to the relationship of players and audience in theatres, expressed, for example, by the "Theatre in the Round" movement, is arising in many parts of the world from this challenge, and the effect on the design of new theatres is only just beginning to be felt. Mr. Leacroft's field of study is, therefore, I think, most exciting.

The jury were also impressed with the proposals from G. D. Binckes, from South Africa, who wanted to study landscape architecture in Great Britain, France, Italy and Holland. Interest in this subject is, he feels, limited in his country, where almost every building is dumped down on a suffering landscape.

The Hunt Bursary

A certificate and £95 for the study of housing and town planning attracted three entries this year, two last year. Here, juries are generally confronted with huge, bulging portfolios with wads of drawings (mostly flashy, brightly tinted zoning plans) which, I am afraid, give me immediate indigestion. But juries are of tougher stuff and stagger bravely through these and the long accompanying treatises. The winner, D. A. L. Hanford, impressed them with his very worthy report on the coastal Green Belt in Hampshire. With his prize money, he proposed a 24½-day tour of Europe studying "Men and Vehicles in Housing Areas" with such a ferocious itinerary that it should wear him out.

The Godwin and Wimperis Bursary

A silver medal and a big prize of £300 had only two entries. It is awarded on the best selection of practical working drawings and is open to members and students. Both the strength and the quality of the entries were more disappointing than in previous years and, sadly, no award was made.

Dawnay Scholarship Trust

The prizes are awarded to students in recognized schools of architecture on the evidence of selected working drawings. There were 21 entries, as against 15 last year, and four prizes of £100 each were awarded.

In general, I was most impressed by the technical ability shown in many of the drawings (more so perhaps than were some of the fierce teachers on the jury). I was less impressed by the lack of sensitivity in the detail—I find it boring to see hideous objects impeccably worked out. I was horrified (more so than some of the jury) at the huge waste of energy revealed in many of the drawings. Working drawings are a means to an end—they are for a builder to work from, not for wall decoration in the Henry Florence Hall. Embedded heating coils, tidily creeping their inky way all over a floor plan look impressive enough but are a dangerous waste of time. The drawings try to impress too much, but it does not impress me when someone writes beautifully, largely, laboriously and pompously across one drawing, "One inch represents four feet". (Another writes, "One inch *reps* four feet".) A fiddling point, but an example of last things first.

No single entry deeply impressed the jury. I will deal briefly with the four winners of the awards. The drawings of A. J. Wheeler, from the Birmingham School of Architecture, were quite good, but fit in with what I have just said. Beautiful drawings of a central youth headquarters —too beautiful. Technical skill, great energy and keenness. I, personally, was much more taken with his less flamboyant set of details of a sailing club.

R. L. Alexander, of Edinburgh, put in a set of drawings for "Tourist Board Offices"—a good technical study of an uninspiring building, but too much information and wasted energy for proper working details. From these drawings, it would be fine if this student could set about preparing a set for the builder, giving the information required, but with not one wasted line or unnecessary piece of information. It might then be a fine set.

The cricket pavilion of W. E. Bakewell, of Aberdeen, is a clearer set of working drawings with, for once, a straightforward and logical system of dimensioning; but the resulting building is a little insensitive and uninspired.

The hotel by Miss Evans, of the A.A., is different from the others, with more glaring merits and faults. This award was made by the jury in spite of the size of the scheme tackled, not because of it. It was, we all felt, far too big and this applied, to a lesser degree, to most of the other entries. I think this is largely the fault of the schools (and the R.I.B.A. testimonies). I have the impression that they pay lip service to the virtues of spending a term producing really complete drawings of, say, a potting shed, but become more grandiose at the last moment.

In Miss Evans' scheme, we were all most impressed by the sensitive detailing—the care put into making something work and look well. But the information on the drawings is sometimes strange and haphazard—important elements are not shown or described, while incidental items are laboured and quaintly labelled—for example, "Grass reinforced at openings with concrete paving slabs", whatever that may mean.

If the sensitivity of this set of drawings had been combined with the straightforward clarity of the previous set from Aberdeen, we would have had a fine set of working drawings.

Grissell Gold Medal

This medal and the sum of £35 is a similar type of competition, but for big, grown-up architects. To be eligible, in the words of Peter Shepheard, the critic two years ago, "You have to be past the final, but not have been in practice for more than ten years. This must be as principal, or as head of a Government or municipal architectural department, which I presume leaves the deputy chief architect of the London County Council another ten years after his promotion to chief! But I suppose anybody who has been building garages for ten years for his aunts will be disqualified!"

There were five entries. Generally, the drawings share the students' fault of being far too laboured, but with less excuse. After all, it is very easy to tell students that drawings are a means to an end but, as a student, you seldom have the chance to reach the end—to have built what you have drawn. It is then at least understandable if the drawings are treated as an end in themselves.

The winning set of drawings, by "Caesar" (J. H. Williams, trained at the Birmingham School of Architecture) was much the best—a car showroom and filling station—a stimulating building (especially its roof) delicately detailed, well worked out and clearly drawn.

The runner-up, a "Factory for a New Town", by "Berwyn", was quite a good scheme and set of drawings, but the jury felt that too much came out of the text-book.

The Pugin Scholarship

A silver medal and £80, open to students or members between the ages of 18 and 25, for measured drawings of a medieval building. The drawings of the subject chosen should be a real addition to existing records. Explanatory sketches accompanying the measured drawings are encouraged. There were four entries. The fine tradition of drawing associated with this prize is happily continued this year. It is rather a wooden entry—literally—medieval timber construction being the thing. (I heard it rumoured that, at the A.A., stony Romanesque is now favoured, but neither the A.A. nor the Romanesque has shown its face here.)

The jury thought that the drawings of West Bromwich Manor, by J. A. Stafford, from the Birmingham School of Architecture, were, by far, the best. I go further than that. I think this is the outstanding entry of all this year's competitions. A Gothic, timber, barn-like structure was chosen and clearly described, beautiful, sensitive pencil drawings, with really superb site sketches. At

R.I.B.A. PRIZES AND STUDENTSHIP

first, it was hard to take some of the joining details seriously; you would have to dismantle the building to discover them. This is just about what did happen, as explained on one of the drawings thus: "Restoration of this recent discovery provided a unique opportunity for research into medieval jointing technique". Altogether a beautiful and worth-while achievement. His pictorial site notes of Litchfield Cathedral Chapter House were good, but an anti-climax after West Bromwich Manor.

The other three entries were quite good, but overshadowed by the winner. J. R. Woolmer, the only stone man among the timber wolves, tackled a largish parish church. A brave attempt, but so big a subject that little detail could be recorded.

N. R. Foster had two finely drawn and straightforward set of drawings of a barn of a house. The general drawings of the barn were especially good.

P. B. Lockwood dealt with the Guildhall, Lavenham. A splendid building, wonderfully drawn—wonderfully, but making it look like a prosperous golfing broker's house at Egham, Virginia Water, Chertsey, Addlestone or Weybridge. Some of the erudite members of the jury claimed that this set of measured drawings was inaccurate.

The Owen Jones' Studentship

The Owen Jones' Studentship, a certificate and £250, is for the "Improvement and Cultivation of Knowledge of the Successful Application of Colour as a Means of Architectural Expression". It is open to students or members over the age of 21. There were four entries (last year and the previous year, four also). It is disappointing that this attractive prize draws so few competitors, but this year, though few, the entries were attractive and stimulating.

The clear winner, D. A. Rock (once of Newcastle), had the pseudonym of "Serendipity", which the jury found difficult to pronounce, but which, of course, they and I immediately knew was a word coined by Horace Walpole in January, 1754, from the Arabian "Serendip", meaning "Ceylon", and meaning the faculty of finding interesting or valuable things by chance or where one least expects them. The pictures are generally delightful, marred only by an occasional attempt at humour—for example, a poorly drawn orange cherub on a blue pot—which in architectural drawings is difficult to get away with, unless you are Osbert Lancaster. I admired very much the sketch of Modena Cathedral, in Italy, with its subtly blotchy stonework and the landscape of a Pre-Raphaelite green with Ophelia supplanted by the Austrian onion-domed centrepiece. "Serendipity's" own design, for an artist's club in a village, is attractive but a little overworked. The danger to him is that he can draw and colour so beautifully that almost anything looks splendid. His buildings, in the flesh, will find it difficult to live up to their creator's rendering of them.

The pictures are cleverly related by simple cross reference to the precepts in Owen Jones' "Grammar of Ornament". I wonder if Owen Jones, who died in 1874, and the Misses Jones, who forked out the money for this prize, realized the packet they would stop by asking candidates to include critical notes on this "Grammar of Ornament".

"Jonty" did some charming coloured street elevations of Alnwick, in Northumberland, but the jury felt that it was a somewhat lean subject, inconclusively developed.

"Perseverando" had some quite nice drawing and colouring, but shared the faults of the previous scheme.

"Mint" concentrated on an intriguing subject, "A Study of Yugoslav Gypsy Houses in Skopje" (sounds like an article in *The Architectural Review*). Wild-looking colour patterns, sometimes presented convincingly, sometimes rather amateurishly, chase each other across the paper. The colour scheme on his own building design shows remarkable restraint, as if polychromy did not equal joy after all.

The text accompanying the drawings was interesting and generally to the point, but with inconsequential remarks thrown in about the Macedonian gypsies' circumcision habits, tobacco-drying and love of coarse spicy bread.

The Tite Prize

This prize alternates with the Intermediate Design Prize. It is the Tite's turn this time. An intermediate prize with a certificate and £100, it is a design exercise in the Italian Renaissance manner—this year an open-air theatre in the palace grounds of a fifteenth-, sixteenth- or seventeenth-century Italian nobleman.

I, personally, would find this competition difficult to do, and I find it difficult to criticize. Perhaps you must become a mental transvesticist to put yourself into the costume of this contest—though I do not mean that derogatively. In these days, when this modern style is taken so much for granted, you might guess that the intermediate design prize would bag all the entries, leaving the Tite in the following year with none—and you would be wrong. This year has the whacking great Tite entry of 108, as against 101 two years ago. It is a two-stage competition; the esquisse knocked out 99, leaving nine for the final stage.

Generally, the results were a little disappointing. The 750 seats asked for make only a fleapit auditorium. Most of the entries were out-of-scale and too pompous—the French Empire's idea of the Italian Renaissance rather than the Italian Renaissance's idea of it. The acoustics in most of the designs would be poor, a fault seldom found among classical theatres. It was, I think, a well set programme, although the requirement that a screen wall or colonnade at the rear of the seating should be provided, reasonable in itself, seems too often to have been treated as an excuse to invent a grandiose concoction out of scale with the rest of the design and its surroundings. The jury were fairly fierce about the general standard of the draughtsmanship. I, myself, was impressed by it—perhaps because I draw badly myself.

The scheme by "Queue" (J. M. Hutchinson, from Hull School) was unanimously agreed the best. It is well worked out and finely drawn, but seems to me Napoleonically puffed-up, especially when seen against the charming and charmingly drawn tower, sitting quietly and timidly behind it. The junction between the stage and the grandiose screening colonnades is rather feeble and I think that the open arch behind the centre of the stage would be a bit uncomfy for an actor who would probably not appreciate the garden vista behind his back.

"Leoni" (D. D. Telfer, from Newcastle) had an honourable mention. His is a pleasant design, nicely drawn, belonging to an earlier and simpler century than most of the others. The entrances, especially that for the posh people, are a bit awkward, and the acoustics, with an open colonnade behind the players, would, I think, be a bit mouldy.

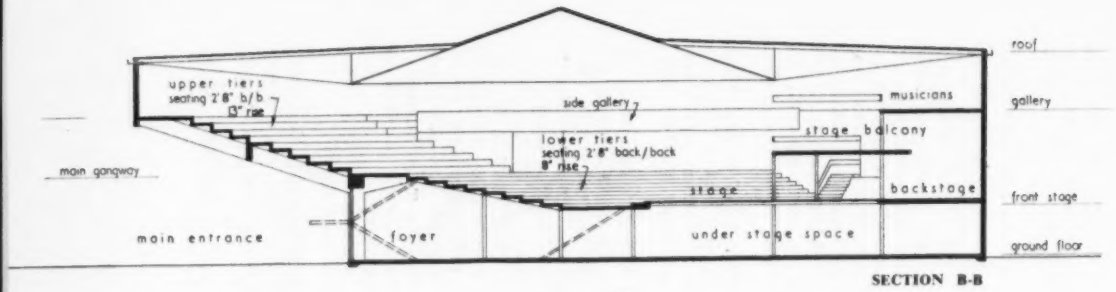
"Deja" had what I thought was the best esquisse, a very simple and charming scheme, in scale with the requirements and with my idea of the surroundings. Unfortunately, the final version was badly worked out and badly drawn—here was what Aldous Huxley calls the Inverted Alchemy of turning gold into lead.

"Borgia's" also was a little disappointing after his very attractive esquisse.

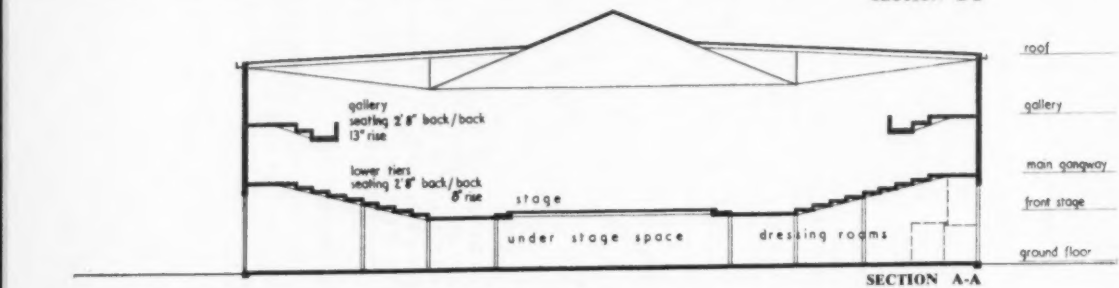
"Tec's" was one of the better schemes, but the stage was badly related with the rest.

"Zeus", "Titan", "Nero" and "Bellerophon"—grand names all and all a little too grand for the job.

Even if I have passed over some students with short, derogatory remarks, or damned with faint praise, I still

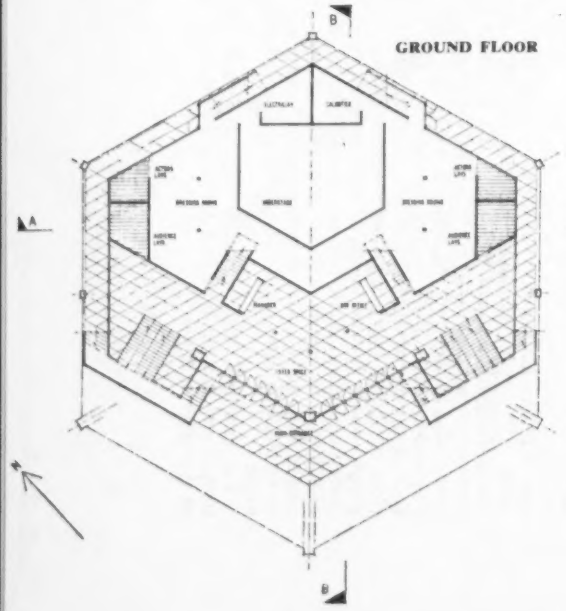


SECTION B-B

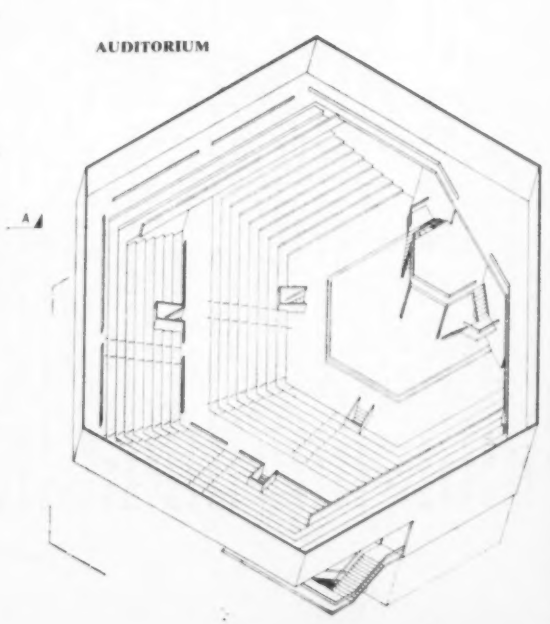


SECTION A-A

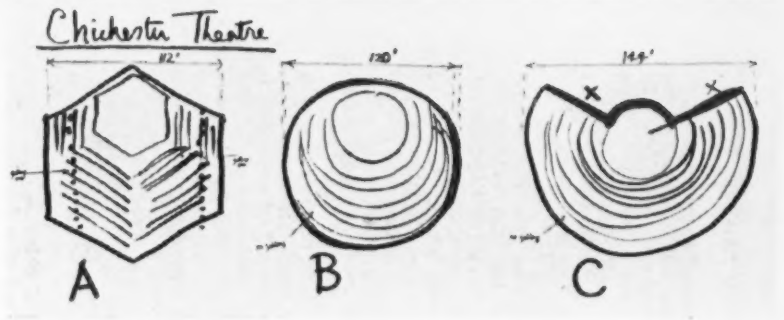
ARENA-TYPE THEATRE FOR CHICHESTER



GROUND FLOOR



AUDITORIUM



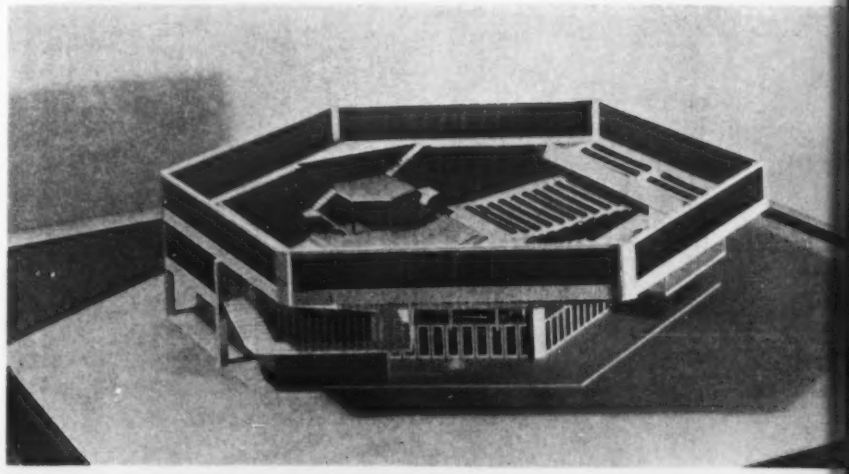
Three sketch-plan prototypes

CHICHESTER is to have its own Festival Theatre, the main feature of which is an open arena-type stage, ideal for three-dimensional productions. The plan provides for an audience of 1,400 to sit on three sides of the arena-stage with none of them more than 20 rows from it. The performers have access to it from all parts of the theatre and acting will be possible from several levels, with a balcony or balconies above the stage.

The site is 43 acres of land in Oaklands Park, a lease of 99 years for which has been granted by the Chichester City Council at a peppercorn rent. Chichester was considered the best choice for a south coast festival centre as it is only 60 miles from London and midway between the universities of Brighton and Southampton. Furthermore, the resident population is growing faster in the south than anywhere else in the British Isles and it is greatly increased by summer visitors.

The theatre is to be financed by voluntary contributions; there is £7,000 in the kitty. A further £63,000 has yet to be found.

In their plans, the architects, Messrs. Powell and Moya, have kept in mind the use of the theatre for recitals, concerts, ballet, dance displays, conferences, boxing and similar sporting events.



R.I.B.A PRIZES AND STUDENTSHIP

remember that they had the spirit and energy to work away at this highly skilled contest and reach the last nine out of over 100 entries, and that is a real achievement.

The Soane Medallion

Now, last and most, I come to the Soane Medallion, the top design prize of the year, other than the Rome. It is open to those who have passed their R.I.B.A. finals. The prize is a medallion and £120, for touring abroad and making measured drawings and sketches. There were 142 entries (about the same as in recent years). It is a two-stage competition. Nine were chosen to tackle the second and final stage.

The subject was a residential yacht club on the south coast, together with a caravan park and a motel in chalet form. A very well-chosen subject of a gruesomely Philistine kind. I do not accuse the eminent and fearfully progressive jury of being Philistines. I think the subject is only too probable and realistic and is a challenge to competitors to think up something which, while answering the client's requirements, will not fall into the trap of ruining yet another piece of coastline with its chalets and caravans.

The quality of the final designs is not at all bad—though my impression is that the standard of last year's intermediate prize was a little higher. This is not unusual; the intermediate phase is more often a peak in one's architectural career than the Soane Medallion. Nevertheless, several of these Soane schemes, if built, would be greatly admired and, if judged on the comparative method, rightly so.

In the nine schemes, I found a refreshing diversity of treatment, although slick streamlining poisons three or four of them. It is noticeable, and I think welcome, that colour is used with more restraint than in the polychromy-equals-joy days, when buildings were made apparently of assorted flavours of reinforced poster-colour.

Although black, white and violent shades of grey are now quite the thing and fancy furnishing shops proudly claim black and white to be "House and Garden" colours, most competitors have exercised the further restraint of not sticking to monochrome.

"Bounty's" scheme (that is R. A. Allsopp's, from Leicester) was agreed the best, but only after some hesitation from worried-looking jurors. The building is pleasantly placed, overlooking the bay, and not straight out to sea. The blocks forming the model are charming and cleverly worked out, but are too pimply on a fine landscape. They could so easily and naturally have been burrowed into the sloping ground and camouflaged, so that their petty scale did not jar with the main building and with the landscape. The caravan park is trite and nasty. The main building is pleasant enough looking—straightforward, not too ponderous and is original and personal in a quiet sort of way. The designer is at his best in the handling of the outlying wings like the tarred diagonal-boarded doors to the boathouse. The curved edge of the top of the building is a puzzling but harmless piece of styling but is a primmer version of the original design where it was handled more robustly and with more conviction. Materials are generally used well but why introduce heavily tailored stonework as well as the rugged old stuff? This fidgeting around from material to material so often brings about the dullness it seeks to avoid.

The handling of the inside is straightforward but not stodgy, and the planning is a lot less silly than in most of the other schemes.

I am told by someone who knows that there are important requirements for the putting out of flags and the working of starting guns. I do not understand these, nor does this competitor and nor do most of the others. Being ignorant of these requirements is all right for the preliminary sketch, but it is surprising that so few have since bothered to find out about these esoteric devices. They might easily influence the design.

"Tonka's" promising sketch scheme has unfortunately developed an air of slickness in the final working out. The motel arrangement is borough engineer's bungaloidal.

"Django's" is a disappointment again, after his sketch scheme with its fresh, slightly naive quality. In working out his design, he has made an attempt to avoid the pitfalls of plagiarism and cliche, but the process of intellectual grindings has led to something which looks rather like any old timber huts, even if they are subtly worked out and well sited.

"Able's" sketch scheme was, I think, the most promising of the lot—a most vigorous and thoughtful design. The final version has changed. The delicacy of the sketch is replaced by a cheerful heaviness—reminiscent of the Rue Mallet-Stevens of the '20's or of something to be dumped on a plot in Rotterdam. It does not seem to me suitable for the site, even if some parts of the building are exciting and beautiful. The caretaker's cottage goes very badly with the main building, but he has coped better than anyone else with the layout of the motel group.

"Shilly's" sketch scheme had a pleasant rough-and-ready boatyard atmosphere, some of which has been lost in the later refinements. But he is obviously a sensitive designer and good planner, even if he has worked in too many tricks. The jury and I thank him for the trouble he took in showing clearly the materials he used in making up his buildings.

Too many seem to think that writing the names of materials on a drawing is a form of indecent exposure. Shilly confined his indecent exposure to the caravan layout.

"Chippy's" main building is pleasing and kind to the site. We all felt it would look better without its tower, which is out of scale, unnecessary and, internally, badly arranged. I find the brown vertical weatherboarding rather an insipid alternative on this sea-site to tarred boarding done in the old-fashioned horizontal way.

"Rab's" building has a light, cheerful look and has the right touch for the site. The drawings are sensitive too, but not explicit—walls built of the unknown with small stately pleasure domes of mysterious construction thrown in. The internal planning is rather poor, especially the canteen and bar on different floors, served by a double-height kitchen.

The design by "Nor" looks impressive at first sight, but seems to me too streamlined, slick and out of scale with the surroundings. The main lounge has magnificent views over the car park. The drawings are very competent and clear.

Finally, one of the most interesting designs—that by "Malad". It has broken one of the rules, because the final design is not remotely like the original sketch. (But, even if this rule had not been broken, "Bounty's" scheme would still have won.) For once this final design is a great improvement on the sketch. It is reminiscent of Chandigarh but, strangely enough, seems to suit this site. The exterior is a good example of a robust, dominating framework allowing haphazard infilling panels to be cheerfully stuffed into it, but the motels and other outworks are horribly out of scale with the main building.

The drawings are clear and rather lovely, in spite of the parsnip-headed beings peopling them.

In Conclusion

I hope next year's critic has an even more stimulating bunch of entries than I have had this time—and a bigger bunch—and I hope he learns as much from his horrible experience as I have.

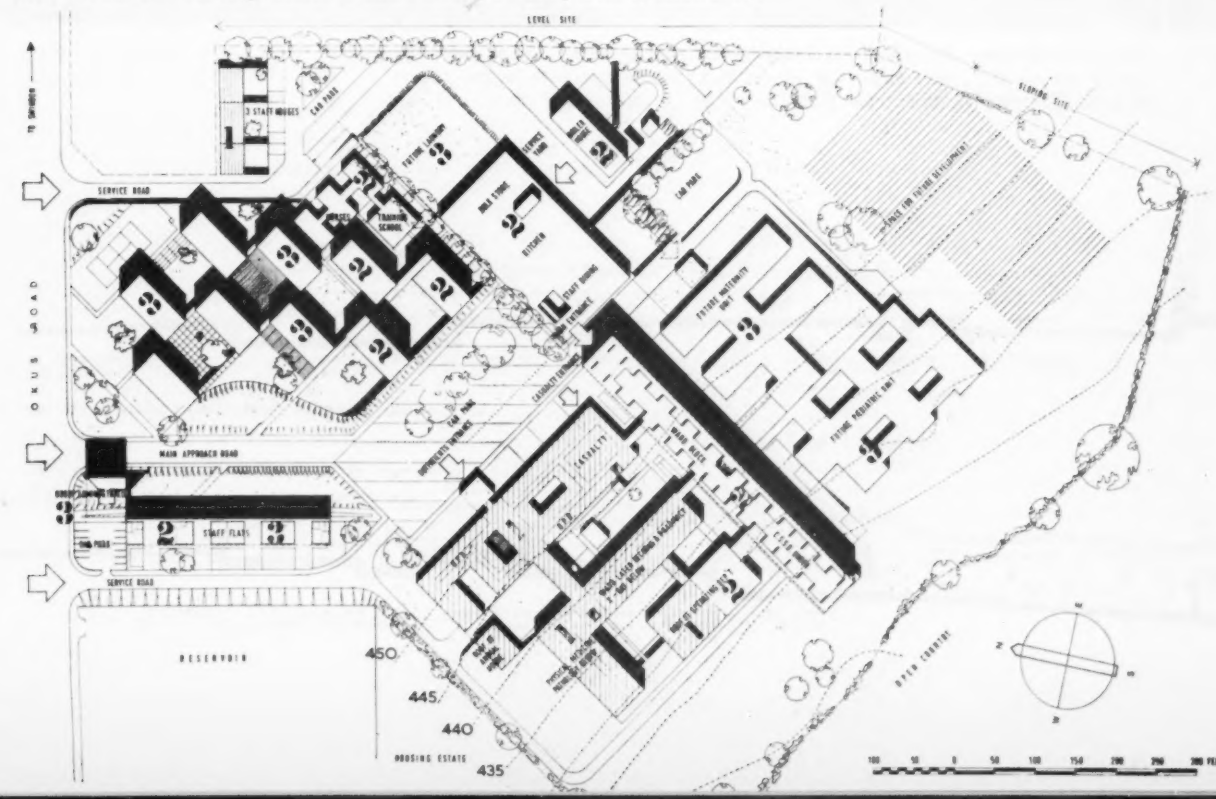
As the South Croydon child said to her Aunt Enid, "Thank you for all the trouble I've been".

Photos: de BURGH GALWEY

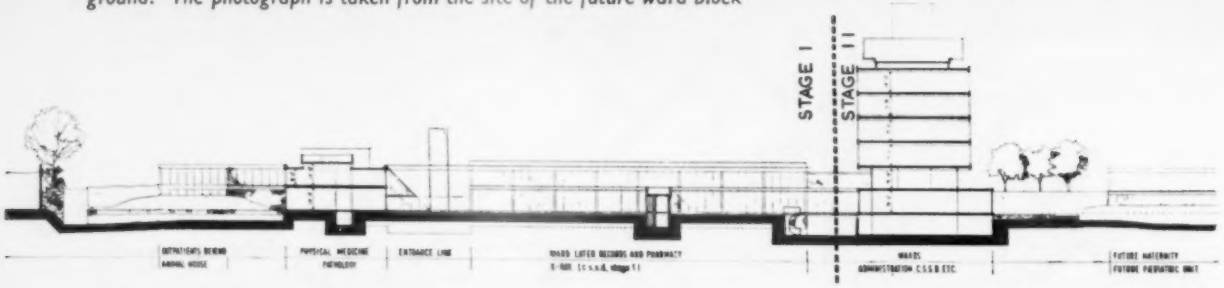
PRINCESS MARGARET HOSPITAL, SWINDON

For the Oxford Regional Hospital Board: W. J. JOBSON (Regional Architect)
Architects: POWELL and MOYA
Assistant Architects: S. P. SKINNER and J. C. CALDERHEAD
Consulting Architect: R. LLEWELYN DAVIES
Consulting Mechanical and Electrical Engineers: J. ROGER PRESTON and PARTNERS
Quantity Surveyors: DAVIS, BELFIELD and EVEREST

The first stage of one of the few hospitals to be planned since the war is illustrated in this article. Powell and Moya, the architects, have made considerable use of the research by the Nuffield Foundation. The site plan and sequence of building is shown below. The large stencil numbers show the three phases of construction

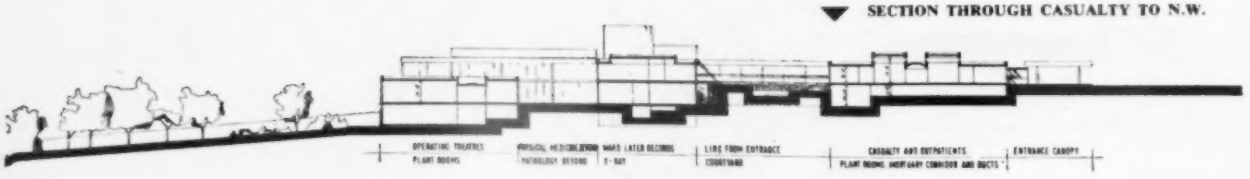


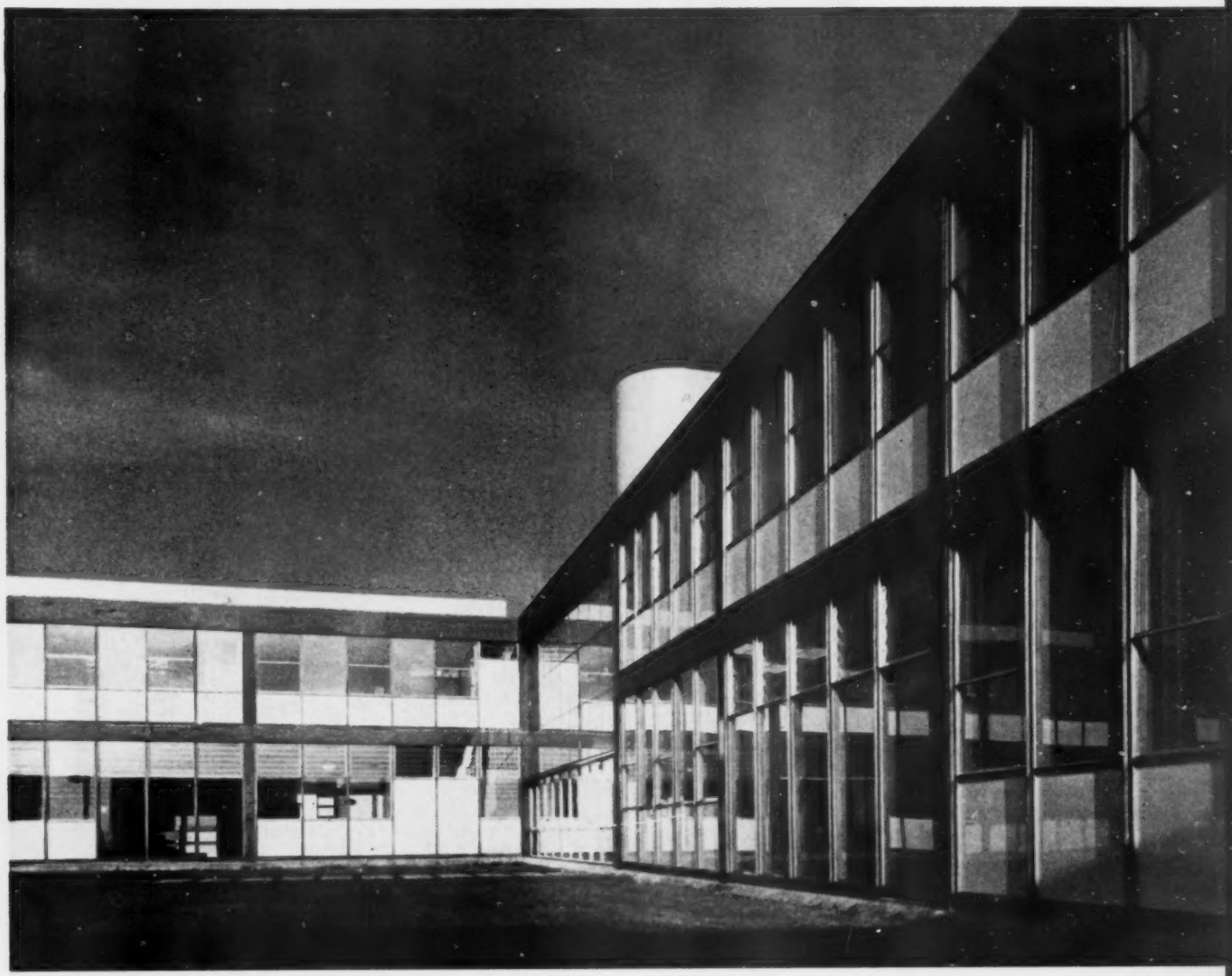
The garden between X-ray and the temporary ward block, left. The outpatients' clinics are on the right, under the glazed link connecting them in the background. The photograph is taken from the site of the future ward block



▲ SECTION THROUGH PATHOLOGY TO N.E.

▼ SECTION THROUGH CASUALTY TO N.W.

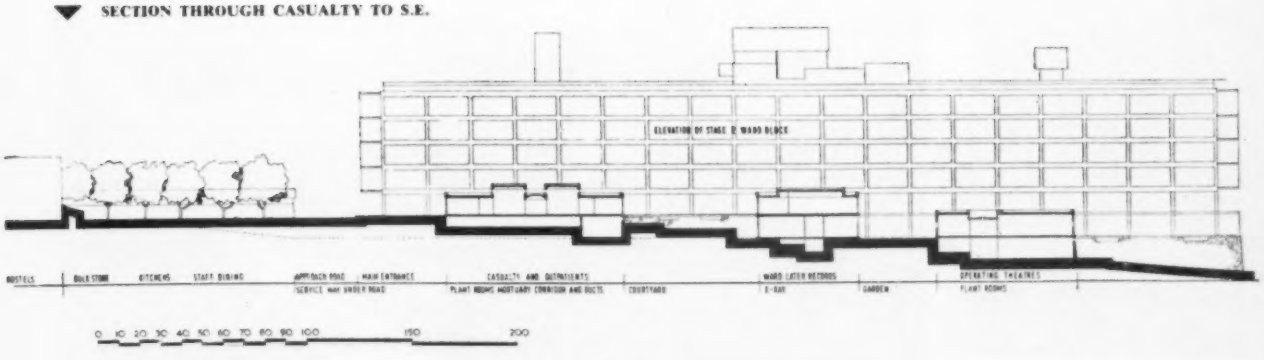




Pathology and physical medicine block, left. The X-ray and temporary ward block is on the right

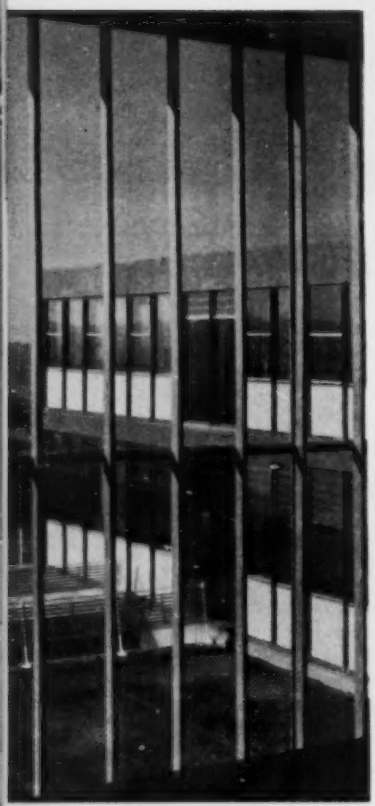
SWINDON HOSPITAL

▼ **SECTION THROUGH CASUALTY TO S.E.**



SWINDON HOSPITAL

Right, pathology and physical medicine block, from the south. Below, right, pathology and physical medicine block, left, X-ray and ward block from the roof of the temporary ward. Below, glazed screen at south end of out-patients' entrance hall, with view onto pathology and physical medicine block



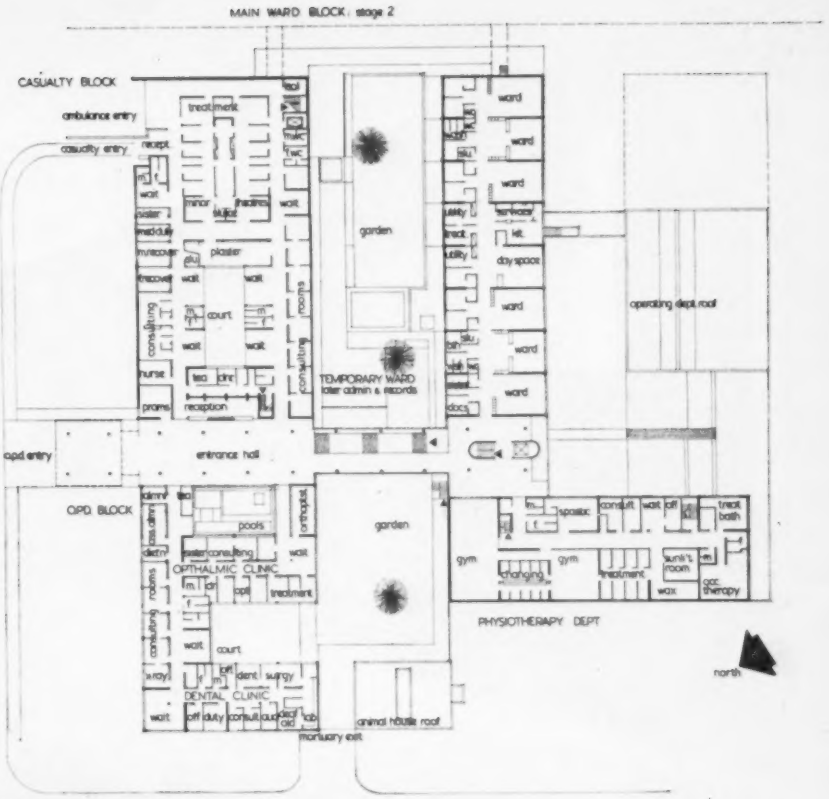
THE ARCHITECT and Building News,
10 February 1960

THIS is the first stage of what will be a 600-bed general hospital, and consists of the following departments: outpatients, casualty, physical medicine, pathology, X-ray and the first of the four operating theatres.

The part of the building reserved for the records and pharmacy department is, in the first stage, occupied temporarily by a 39-bed accident ward and the east end of the X-ray block is occupied temporarily by a central sterilizing and supply department, which will later be housed in the Stage II buildings. In addition, there are three staff houses and small temporary kitchen, dining room and boiler house.

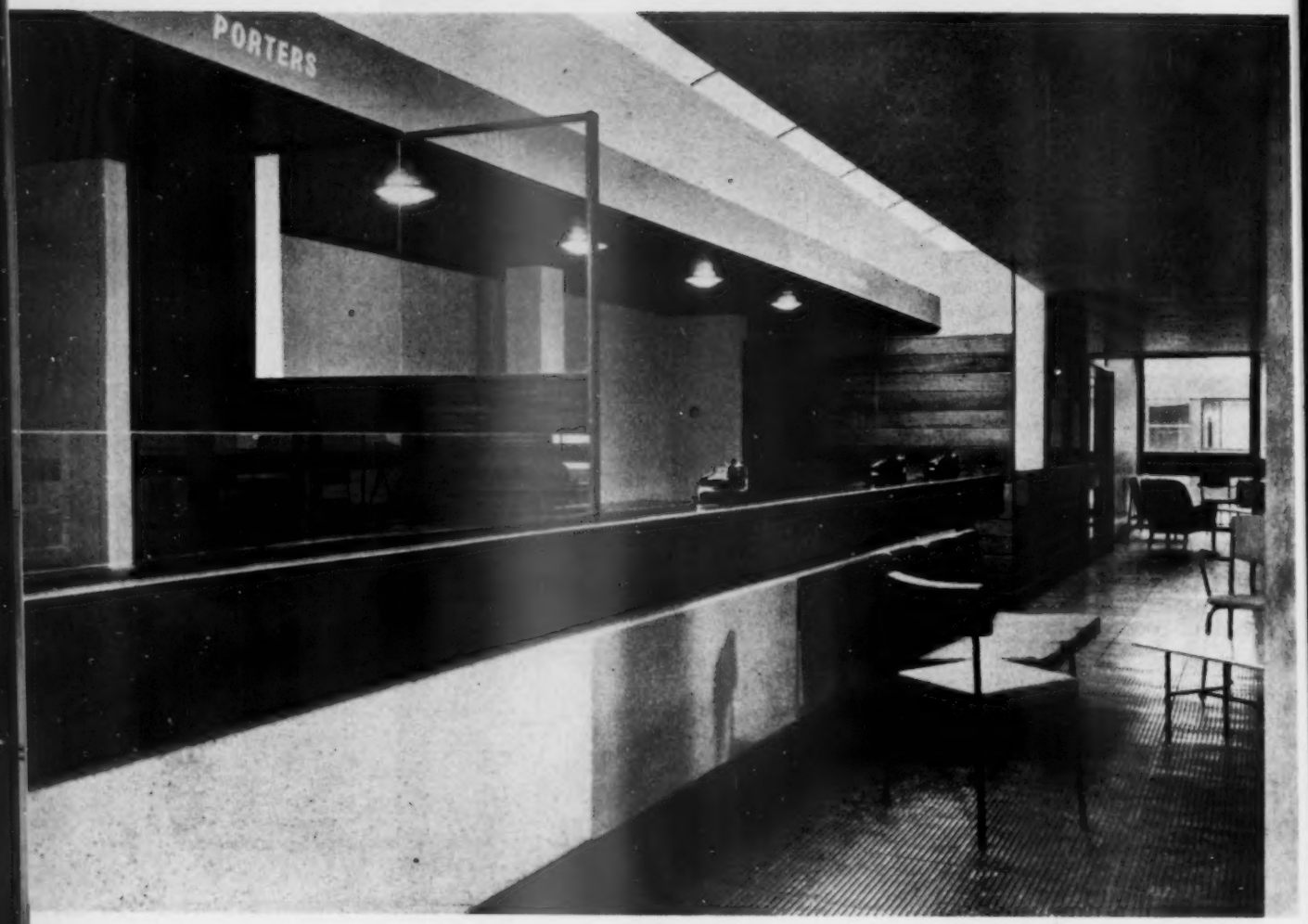
In Stage II there is a block containing four storeys of wards—312 beds (seven standard 40-bed wards and one 32-bed psychiatric ward). At the upper ground floor, the main entrance hall and hospital offices. The lower ground floor includes central sterilizing and supply department. (Access from the service zone is at this level.) This service zone will contain the kitchens, staff dining rooms, hospital stores, boiler house and workshops. Three hostels for student nurses and part of the block of flats for senior nursing and residential medical staff will be included in this stage.

In Stage III there is approximately 250 more beds, sited to the east of the main ward block—maternity unit, children's wards and geriatric wards;



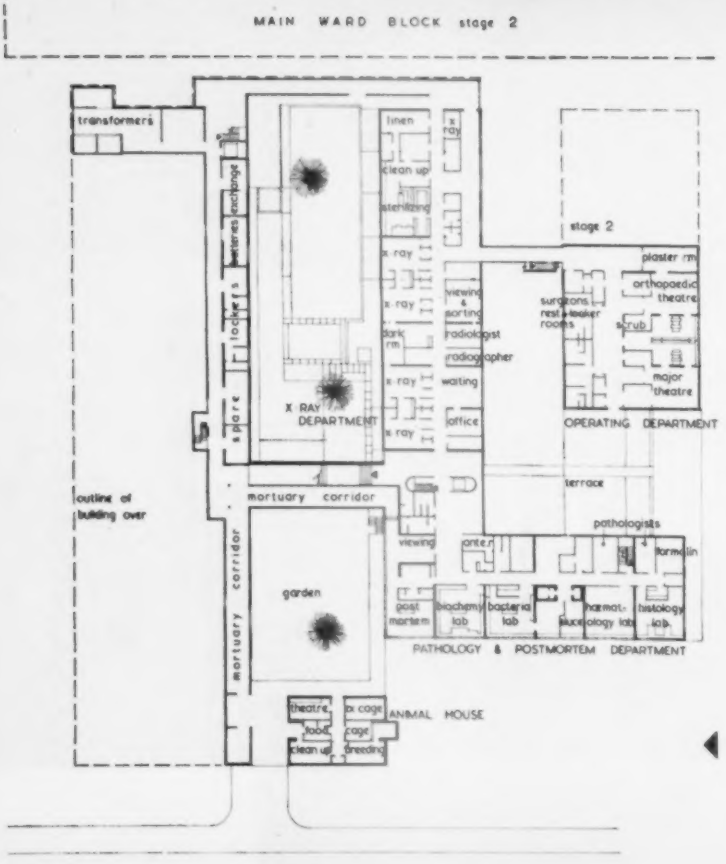
UPPER GROUND FLOOR ▲

Below, night view of the entrance canopy to the out-patient department



The reception desk in the out-patients' hall. The flooring material in the circulation spaces throughout the hospital is black rubber

SWINDON HOSPITAL



LOWER GROUND FLOOR

1, Part of the out-patients' entrance hall showing the stairs down to the X-ray and pathology departments, and the glazed link to the temporary ward and the physical medicine department. 2, The out-patients' clinics showing the waiting spaces on the left of the corridor. 3, The post-mortem room in the pathology department]

also a laundry in the service zone, more residential accommodation, in particular for trained nurses, and a small office building for the Hospital Group Management Committee.

Planning

The site, of approximately 22 acres, has extensive views to the east, south and west over the Wiltshire Downs. To the north-east there is a large builders' works, which will be screened from view from the main hospital buildings by siting the service buildings for the hospital along this boundary.

The site rises up from the southern boundary, flattening out to a plateau (the bottom of a worked-out quarry) at the north. It is bounded on the north by Okus Road, which leads to Old Swindon and to Swindon. Existing mounds of surplus earth and stone from the old quarry are being retained and will be used as features in the landscaping.

The sloping site has enabled two ground levels to be planned to separate the two streams of hospital traffic, public and internal. The upper ground floor, which is reached from the main entrances, serves the out-patients and visitors to the wards, and the lower ground floor is reserved for internal hospital circulation, distribution of supplies and food and removal of bodies to the mortuary. On this level also are the major operating theatres, X-ray department, pathology laboratories and central sterilizing and supplies department, all of which serve both the ward block and the out-patients' and casualty departments. Service buildings such as kitchens, boiler house, group laundry, workshops and general stores are on the north-east corner of the site, down wind from the main hospital buildings and out of view from the main wards. The kitchens are connected with the lower ground floor level of the main ward block by a short underground link from which heated trolleys are distributed vertically by goods lifts into the ward kitchens. On each floor of the main ward block the wards are grouped in pairs on either side of a central area which contains stairs, lifts and accommodation which can be shared between wards.

Main Buildings

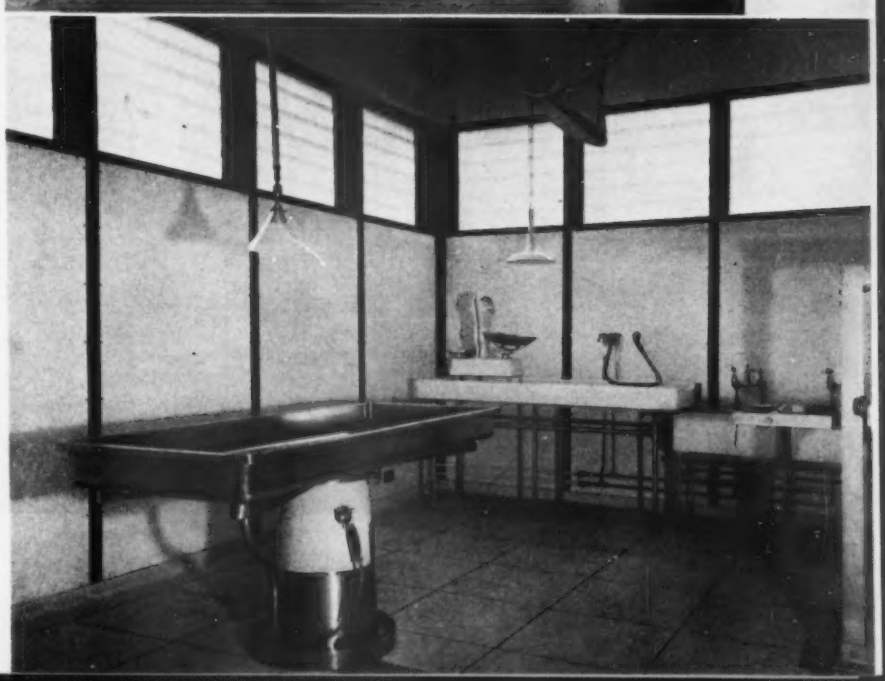
The main hospital buildings consist, therefore, of a multi-storey ward block with extensive views straddling, at right angles, the single- and two-storey outpatients' and treatment departments and also the maternity and children's wards.

The buildings in Stage I are in one- and two-storey blocks, and are mainly the diagnostic departments. They have been designed to allow for later alterations or extensions.

Small individual waiting areas are provided for each out-patients' clinic.

1

2



3

SWINDON HOSPITAL

Above, nurses' station in temporary ward. Below, corridor in the physical medicine department. The waiting space on the right is an alcove off this corridor. 1, The treatment bath (Hubbard bath) in the physical medicine department. 2, The plaster room in the casualty deparment. 3, X-ray room. 4, Casualty

Construction and Finishes

The foundations are normal mass concrete bases to reinforced concrete columns.

The superstructure consists of reinforced concrete columns and flat, reinforced concrete *in situ* floor slabs. The external faces of the columns and the slab upstands are faced with 1in slate. The roof finish generally is cork insulation with screed to falls and 3-ply roofing felt, with varying roof finishes, e.g., grey granite chippings, concrete tiles or asphalt and 9in of earth sown with grass.

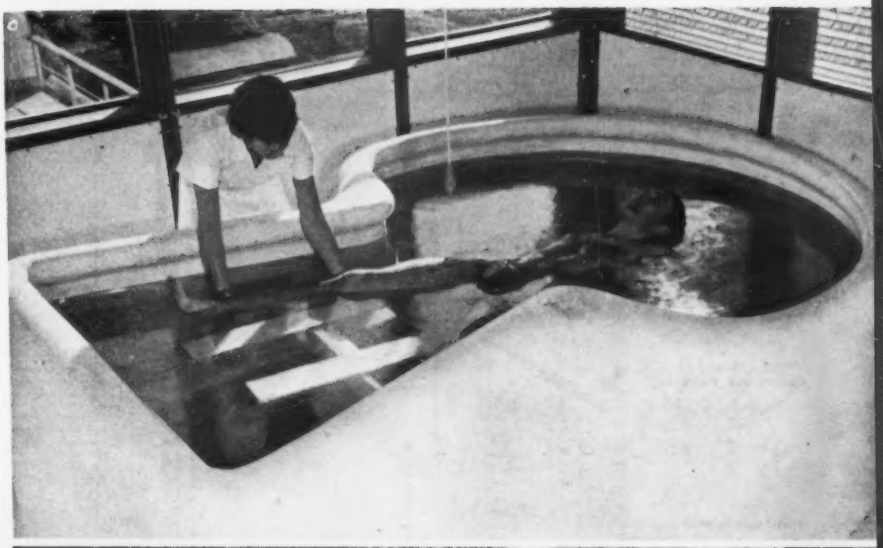
Windows consist of hardwood mullions (West African mahogany) at approximately 4ft centres, bronze-faced externally, with aluminium sash windows, double-glazed fixed lights or adjustable glass louvres. Apron panels consist of white opaque glass sheets externally with vapour seal of asbestos cement sheet and 1½in wood-wool with aluminium foil backing, air space insulation and plastics-faced ply internal facings.

Internal partitions generally are of 2½in clinker blocks with stretched wire reinforcement on each side, plastered and finished with emulsion paint. The joinery is hardwood (generally West African mahogany).

The ceilings are generally plastered, with distemper or emulsion paint. In some parts of the building, the false ceilings concealing services have perforated acoustic tiles.

The floor finishes are glass silk quilt (on upper floor only of two-storey blocks) 2in screed taking heating panels under 2in screed including floor finish. Surfaces, cork tiles generally. Ribbed black rubber tiles in main outpatients' entrance hall. Lino tiles in some corridors and lower ground floor rooms. Hardwood block (Afrormosia) in pathology laboratories and hardwood strip (maple) in the physical medicine gymnasium. Terrazzo in treatment and sluice rooms, etc.

The services include space heating, hot water and ventilation. Heating generally is by means of low temperature hot water embedded floor panels, boosted where necessary with ceiling panels or, in corridors and extremely exposed rooms, by steam convectors.



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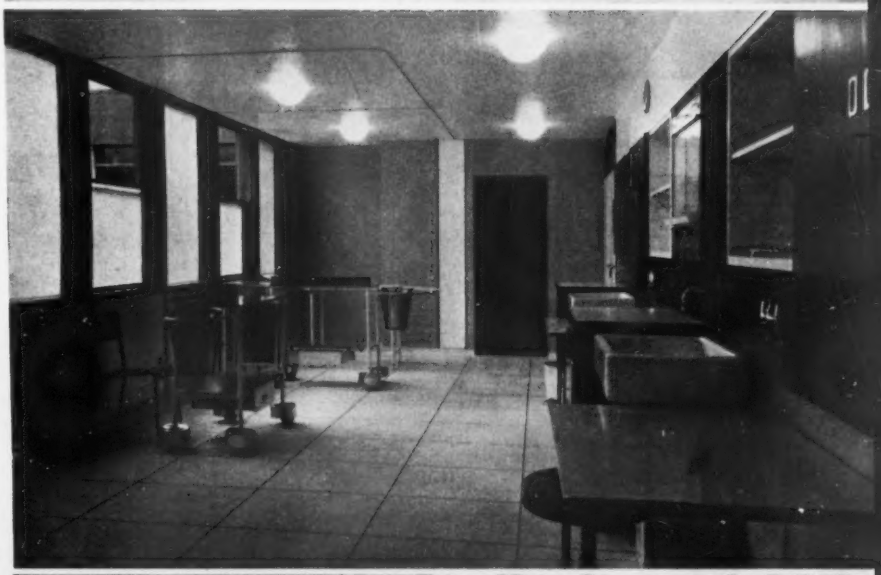

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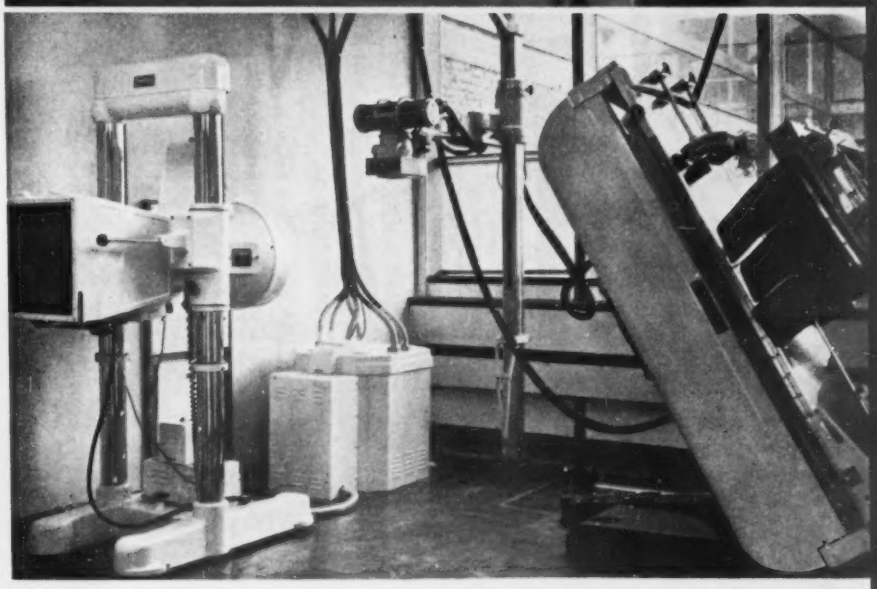

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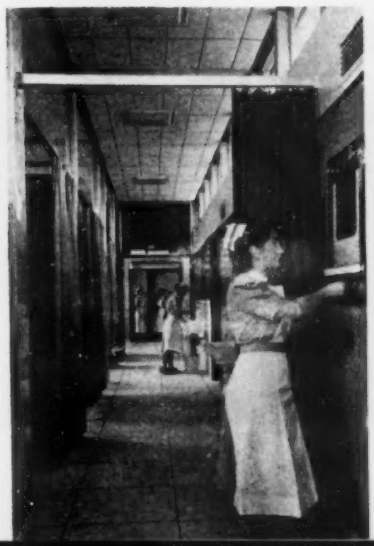
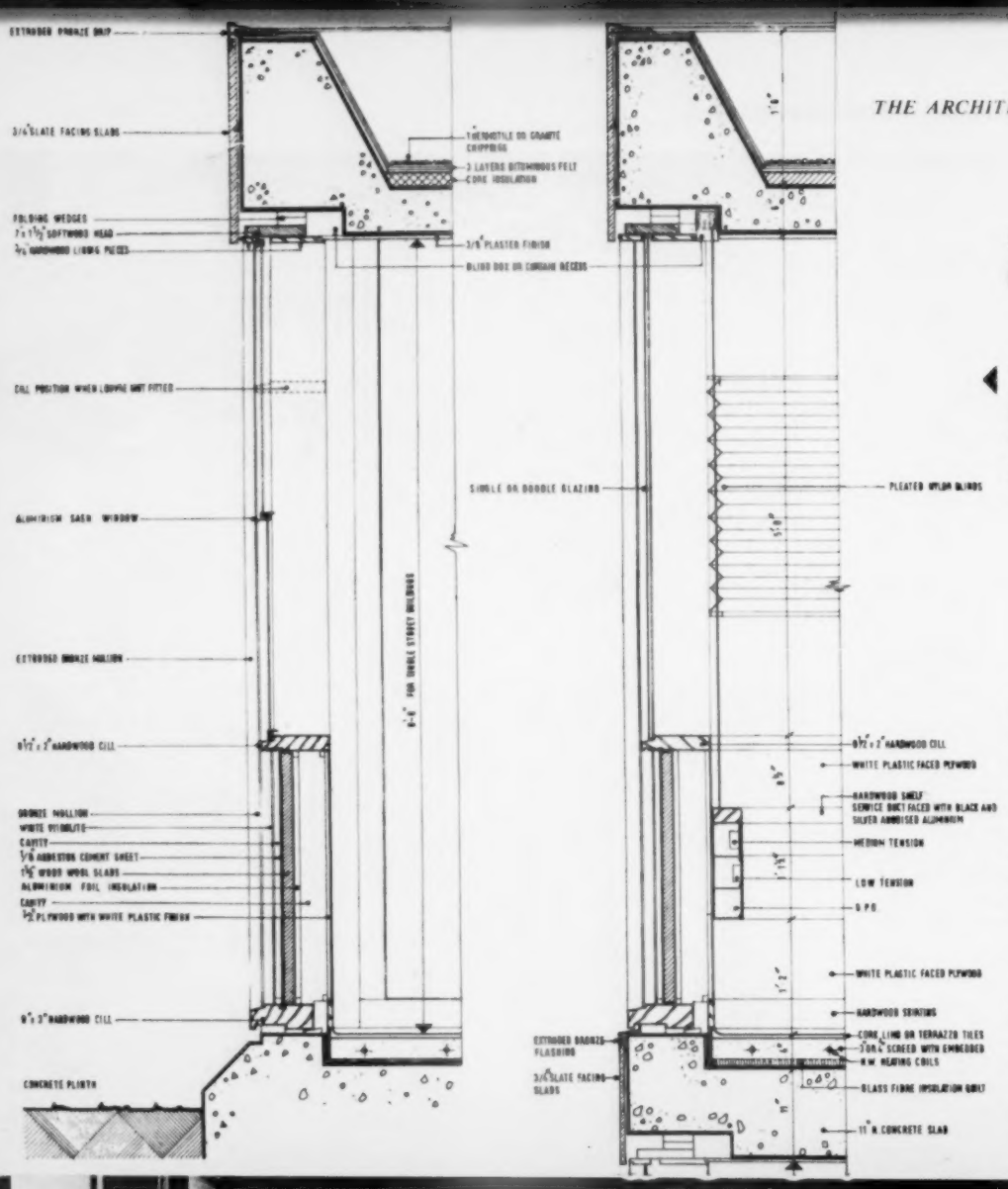


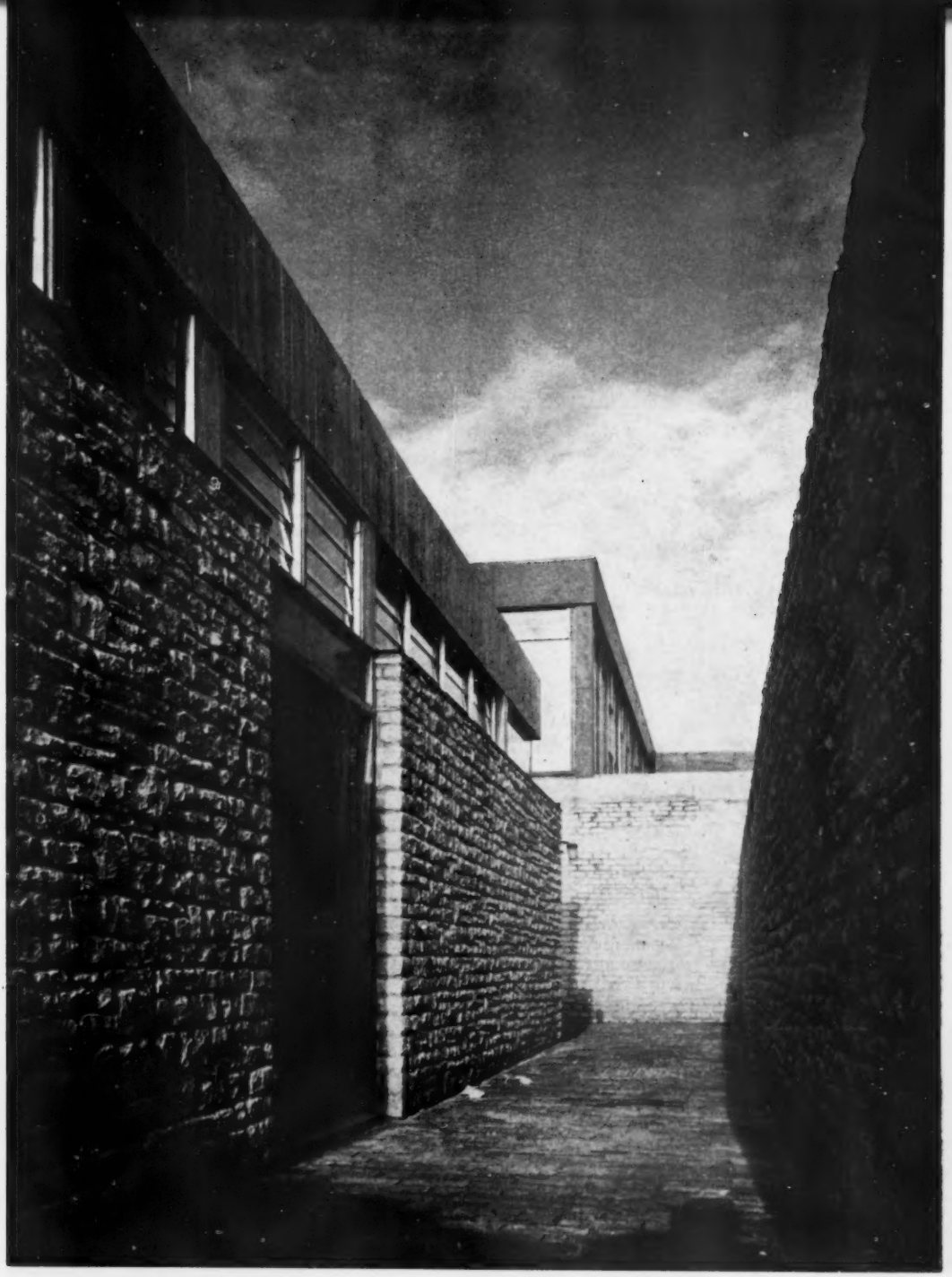
4

SWINDON HOSPITAL

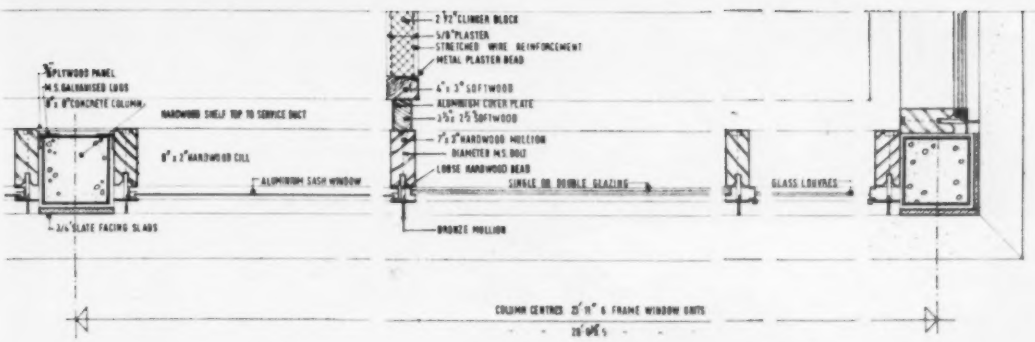
TYPICAL SECTIONS THROUGH OUTER WALL OF SINGLE STOREY (FAR) AND DOUBLE STOREY (NEAR)



Right, the animal house, in the background the out-patients' clinics. Below, one of the three pools in the courtyard off the out-patients' entrance hall. The architects intended that these pools should be "water tables". They placed an R.S.J., on the tops of the concrete sides of the tanks to keep the water about just below the top of the R.S.J. There is another view—in daylight—of this courtyard on page 196



COMPOSITE JUNCTION PLAN



COST ANALYSIS OF CONTRACT PRICES

Tender date	September 1956
Work started	February 1957
Work completed	October 1959
Tender price accepted	£491,233 for Hospital Buildings after reductions
Lowest tender price	£528,734
Superficial area	81,061
Cube	1,224,861

	Total £	%	Per F.C. s. d.	Per F.S. s. d.
Preliminaries and Insurance	27,464	5·59	5½	6 9½
Contingencies	10,000	2·03	2	2 5½
Structure and cladding	197,360	40·18	3 2¾	48 8½
Internal finishings and decorations	39,118	7·96	7¼	9 8
Joinery fittings, Fume cupboards, doors, etc.	24,595	5·01	4¾	6 0¾
Metal cupboards, water heaters, sterilizing, radiography and kitchen equipment, etc.	6,076	1·24	1¼	1 6
Lift Installation	8,342	1·70	1¾	2 0½
Sanitary Plumbing	14,287	2·91	2¾	3 6¼
Mechanical Services	79,152	16·11	1 3½	19 6½
Electrical Services	37,435	7·62	7¼	9 2¾
Temporary Boiler House	3,500	0·71	¾	10¼
External Works	43,904	8·94	8½	10 10

Total cost	£491,233
Cost per ft super	121/2½
Cost per ft cube	8/0¼

General Contractors:

W. E. CHIVERS and SONS LTD.

Sub-contractors and suppliers:

Aluminium Duct Covers: G. A. Harvey & Co. (London) Ltd. *Architectural Ironwork, Special Windows, Stainless Steel Draught Lobby and Special Equipment:* Wessex Guild Ltd. *Asphalt Tanking:* Faldo Asphalt Co. Ltd. *Blinds:* Accordo Blinds Ltd. *Bronze Extrusions:* McKechnie Bros. Ltd. *Curtains:* Mills & Merricks Ltd. *Curtain Track:* Roanoid Ltd. *Double Glazing:* Hollow Seal Glass Co. Ltd. *Electrical Installation:* William Steward & Co. Ltd. *Fencing:* David Rowell & Co. Ltd. *Floor and Wall Linings in Terrazzo:* Marbello & Durus Ltd. *Flooring (Cork, Linoleum Tiles, Hardwood):* Philip Flooring Co. Ltd. *Flooring (Ribbed Rubber Tiles):* Semtex Ltd. *Flush Doors, Plastics and Hardwood Faced:* Veneercraft Ltd. *Foundation Stone:* Fenning & Co. Ltd. *Frost-proof Tiling:* Purbeck Decorative Tile Co. *Horticultural Works:* R. J. Tucker & Son Ltd. *Hubbard Tank Gear:* Wessex Guild Ltd. *Ironmongery:* B. Finch & Co. Ltd. *Joinery (Special):* W. E. Chivers & Sons Ltd. *Joinery (Standard Cupboards):* Walter Lawrence & Son Ltd. *Lifts (Passenger):* Express Lift Co. Ltd. *Mechanical Services, Heating and Ventilating:* G. N. Haden & Sons Ltd. *Metal Cupboards:* J. Glover & Sons Ltd. *Nosings:* Ferodo Ltd. *Photographic Equipment:* Kodak Ltd. *Plastic Roof Domed Lights:* William J. Cox Ltd. *Refrigerators:* R. E. A. Bott (Wigmore St.) Ltd. (Frigidaire). *Road Surfacing:* Limmer & Trinidad Lake Asphalt Co. Ltd. *Roof Coverings:* D. Anderson & Son Ltd. *Sanitary Fittings:* Broad & Co. Ltd. *Slate Facings:* Bow Slate & Enamel Co. Ltd. *Sliding Doors (Ambulance Entrance):* Potter Rax Ltd. *Sterilizers:* Sierex Ltd. *Theatre Lifts (Goods):* Aldous & Campbell Ltd. *Viewing Screens:* Watson & Sons (Electro-Medical) Ltd. *Wiring Reinforcement for Partitions:* Highworth Processes Ltd. *Windows (Louvred):* G. Johnson Bros. Ltd. *Windows (Sash):* Alumin Building Components Ltd. *Windows (Standard Metal):* Williams & Williams Ltd.; Metal Casements Ltd.

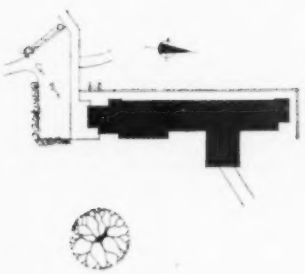
SWINDON HOSPITAL

Below, the pools in the internal courtyard off the out-patients' entrance hall. The Japanese oak tree in the far corner was found by the architects in a nurseryman's garden and bought for £30. It is about 30 years old

THE ARCHITECT and Building News,
10 February 1960

NEW WARD, ORTHOPAEDIC HOSPITAL, BIRMINGHAM

Architect: DONALD A. GOLDFINCH
Architect in Charge: L. TIPPINS
Reinforced Concrete Design: Z. PICK
Quantity Surveyor: A. BURSEY



Above, the west facade of the new wing

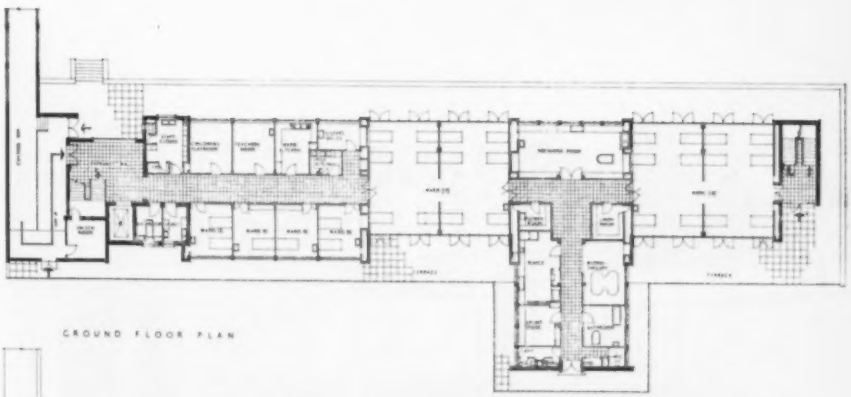
THE Royal Orthopaedic Hospital, in Birmingham, has grown a great deal since it began in a converted house, presented by the Cadbury family, in 1929. Many wards have been added, along with operating theatres, an X-ray department and a physiotherapy department.

The latest addition, a new ward block, is part of an overall development scheme for the hospital; another similar ward block will be built later to replace one of the existing hutted wards.

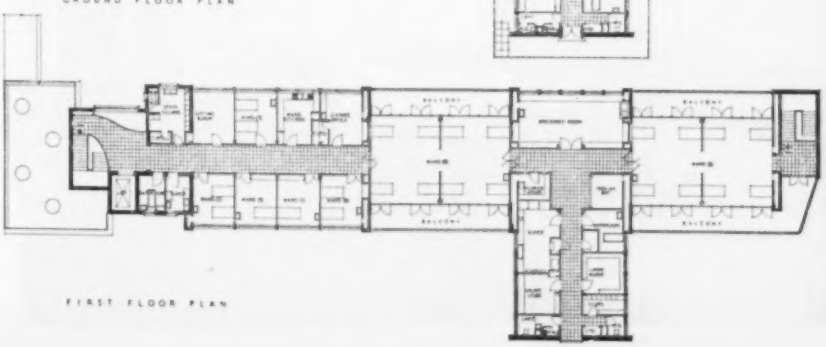
The two-storey block, recently completed, has been built south-west of the main hospital on sloping ground, and is connected to the main hospital by a covered way.

The block is T-shaped, with the ancillary rooms in the short leg of the T. The ground floor children's section, containing thirty beds, is divided into two twelve-bed wards, two two-bed wards, and two single rooms. The first floor accommodates a twenty-four-bed women's section—two eight-bed wards, three two-bed wards and two single rooms.

Both floors have similar ancillary accommodation—bathrooms, staff cloakrooms, sisters' office, kitchen,



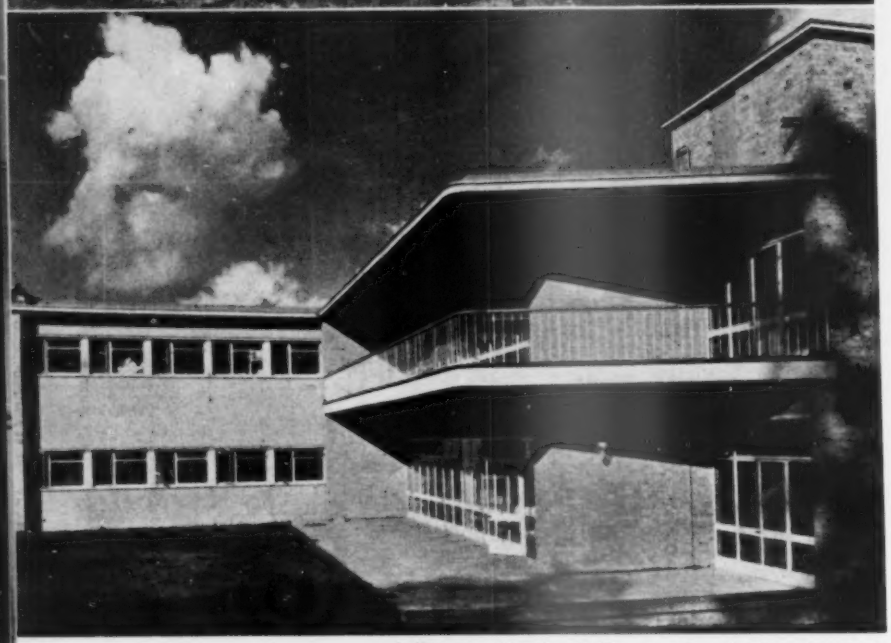
GROUND FLOOR PLAN



FIRST FLOOR PLAN

HOSPITAL, BIRMINGHAM

1



2

1, The east facade. 2, The east facade from the north; there is a ward on the right and, in the wing that projects, service and treatment rooms. 3, Interior of 12-bed ward. (There are a number of single and double bed wards)

3

storage rooms and flower room. On the first floor the flower room is fitted out as an emergency kitchen, for use if the large ward has to be isolated. The first floor has, in addition, a patients' sitting room, and the ground floor has a milk kitchen for preparing babies' feeds, a children's playroom, a teachers' room and a hydrotherapy room—so that children can be given hydrotherapy treatment without being taken to the hospital's main physiotherapy department.

The building frame consists of pre-cast concrete columns and beams, which are joined together by overlapping of reinforcement. The columns and beams are similarly joined to the *in situ* concrete floor and roof slabs. Thus a rigid monolithic structure is formed which combines the advantages of both pre-cast and *in situ* construction.

The columns are at 21ft 3in centres in the large wards, and at 12ft centres in the ancillary wing, except at expansion joints, where double columns have been used. The vertical service ducts are housed in the 2ft 1½in space between the double columns, where they are concealed but readily accessible by full-length doors.

The external finishes were chosen primarily with a view to reducing maintenance costs. The walls of the sanitary block are clad with pre-cast concrete exposed aggregate slabs; the ends of the building are in brown facing brick with grey eggshell tiled panels between the windows. The columns are finished with blue mosaic tiles. The terrace wall is in Derbyshire stone, and the paving generally is of multi-coloured concrete paving slabs.

Internal finishes include floors of teak blocks and linoleum tiles, and walls plastered and painted with eggshell finish paint. Flower boxes are provided internally as well as externally.

General Contractors:
GEE, WALKER and SLATER LTD.

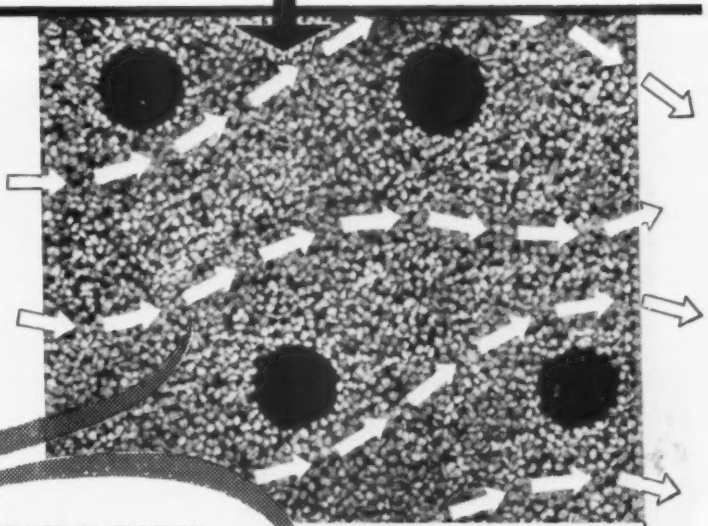
Sub-contractors and suppliers:

Asphalt: Limmer & Trinidad Lake Asphalt Co. Ltd. *Bed-pan Washers and Hydrotherapy Bath:* Shanks & Co. Ltd. *Concrete Paving:* Neolite Ltd. *Cork Flooring:* Marshall Davis & Co. Ltd. *Electrical Installation:* Parker Winder & Achurch Ltd. *Exposed Aggregate Pre-cast Concrete Panels:* John Ellis & Sons Ltd. *Felt Roofing to Covered Way:* D. Anderson & Sons Ltd. *Heating and Ventilation:* Richard Crittall & Co. Ltd. *Ironmongery and Balustrading:* Mountford Bros. Ltd. *Lantern Lights and Glazed Hoods:* John Gibbs Ltd. *Lift:* Marryat & Scott Ltd. *Linoleum Flooring:* Limmer & Trinidad Lake Asphalt Co. Ltd. *Metal Windows:* The Monk Metal Window Co. Ltd. *Pre-cast Concrete Duct Slabs:* George Greenwood & Sons Ltd. *Rubber Flooring:* Semtex Ltd. *Sanitary Fittings:* Griffin Foundry Fireplace and Sanitary Fittings Ltd. *Sterilizers:* Manlove Alliott & Co. Ltd. *Suspended Ceilings:* Steel Bracketing & Lathing Ltd. *Terrazzo and Granolithic Flooring:* Marbello & Durus Ltd. *Wall Tiling:* Bryon & Co. Ltd.

ISOLATION
ventilates built-up roofs

An entirely new technique by RUBEROID

Two innovations make Ruberoid Rubervent a built-up roof that is revolutionary in both design and effect: it *isolates* the weather-proofing from substructure surface hair cracks and *ventilates* the substructure so that vapour pressures may disperse through fully communicating spaces. Rubervent, using glass fibre based bitumen materials, is inorganic and inert. The first layer is coated on the underside with coarse mineral granules. These granules support it uniformly and isolate it from the substructure, thus allowing water vapour and gases to disperse over the entire roof area and ultimately to the exterior atmosphere. Any blistering which might otherwise result from this cause is prevented. All layers are bonded together and to the substructure simultaneously thus avoiding the risk of damp and dirt between the layers. Rubervent is based on the practical experience of associated Ruberoid companies in Europe.



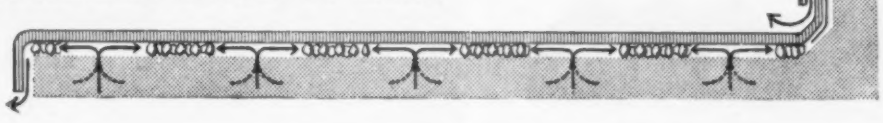
UNDERSIDE VIEW
of Rubervent showing granule underside which allows dispersal of vapour to exterior, and the adhesion points which fix the entire specification to the substructure.

AUTOMATIC ADHESION
The Rubervent roof is fixed to the substructure by 'rivets' of bitumen the positions of which are determined during manufacture and not on site. This provides a rational system of adhesion points whilst maintaining substantial isolation from the substructure.

USES For all substructures to which bitumen will bond, i.e. non-nailable materials — particularly insulating concretes.
SPECIFICATIONS 2 or 3-layer for pitched, flat or curved roofs.
FINISHES Mineral Surfaced Glass Fibre Based Ruberoid Roofing, Rubervent Mineral Topping or Ruberdal Tiles.
FIXING Rubervent roofs are supplied and fixed only by the Contract Division of The Ruberoid Company.
COST A firm estimate for the supply and fixing of Rubervent will be promptly supplied on receipt of plans or quantities for a specific project.

Rubervent

ISOLATED & VENTILATED BUILT-UP ROOF



TRADE MARK RUBEROID REGISTERED

For technical literature and model, write to
THE RUBEROID COMPANY LIMITED 694 COMMONWEALTH HOUSE, 1-19 NEW OXFORD ST., LONDON, WC1
C317

F

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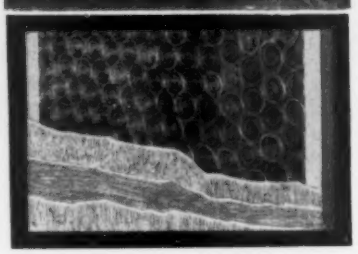
(Photograph of Bramford Estate, Coseley, Staffs; by courtesy of K. E. Millard & Co. Ltd.)



by K. E. MILLARD & CO. LTD

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DURADOR interior flush doors have the exclusive PLACAROL core—hundreds of wooden spirals—bonded within balanced West African hardwood plywood facings for strength, stability and rigidity—plus economy in weight and complete freedom from surface undulation. The Durador is now available with the exclusive SUPER SATIN SURFACE.

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LONDON OFFICE: SOPERS RD · CUFFLEY · POTTERS BAR · MIDDLESEX · TELEPHONE: CUFFLEY 2824

P.3369

Industrial Notes

● Associated Electrical Industries Ltd. have appointed Sir Arthur Elton, Bart., to be controller of their central information department from March 1, 1960. This will allow Mr. S. C. Leslie, who has been acting as head of the department for the past six months, to resume his duties as the company's consultant on information policy.

● Following upon the retirement of Mr. J. C. Hanna, Mr. Norman Ellis has been appointed general sales manager of British Paints Ltd.

● The Dartmouth Manufacturing Co. Ltd., of West Bromwich, who have been making copper boilers for many years, are now manufacturing similar products in stainless steel. These boilers are welded by conventional Argonarc methods with equipment supplied to the company by British Oxygen Gases Ltd.

● The Building and Public Works Exhibition, sponsored by the Northern Counties Federation of Building Trades' Employers, is to be held this year from June 15 to 25 at Lambton Park, Chester-le-Street, Co. Durham.

● The Northern Building Trades' Exhibition is to be held at the Trade Fair Centre, Harrogate, Yorks, from April 16 to April 23. This exhibition is sponsored by the Yorkshire region of the Federation of Master Builders.

● Atlas Lighting Ltd. have formed a lighting development group under the control of Mr. H. Hewitt. This group is based on the company's laboratories at Enfield and will be concerned with the application of light sources and the development of lighting techniques. The company has also retained Mr. H. C. Weston, O.B.E., as light and vision consultant.

● Walker, Crosweller & Co. Ltd., of Cheltenham, have reduced the price of their Unatap as a result of the great demand for the product and rationalization of production. The Unatap now sells at £5 13s 6d reducing to £5 4s for orders of a gross.

● Redpath, Brown & Co. Ltd. report profits for 1959 as £1,193,350, compared with the previous year's result of £1,417,413.

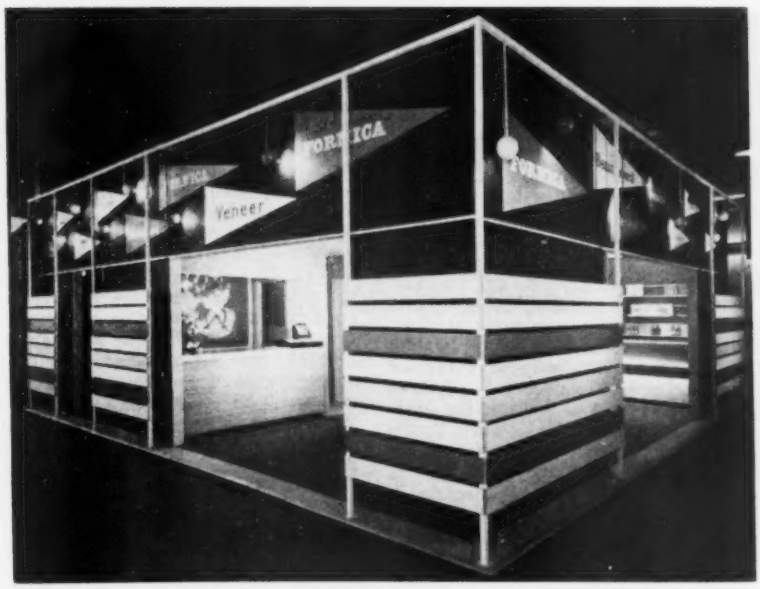
● Fromson Construction Co., of Canada, have been awarded a £33,000 contract for the construction of a new factory and office building to be erected at Woking, Surrey, for Grauer & Weil Ltd. The building has been designed by Messrs. Hal Williams & Co., architects, and is based on a standard, long-span, Fromson Arch Building No. 58.C.4. The area is approximately 20,000 sq ft and includes a two-storey office building in brick and concrete, using the Massillon tension shuttering system for floors and roofs. The roof of the main structure is to be in Massillon hollow deck system, covered with continuous aluminium sheets.

● We regret to record the death, on January 9, of Mr. Arthur Monk, chairman and joint managing director of A. Monk & Company Ltd., civil engineering and building contractors of Padgate, Warrington. Mr. Monk, who was 67 years of age, was the founder of the company.

● Copperad Ltd. have discontinued the manufacture of Wallstrip equipment type "R" (Radiant) and "RC" (Radiant Convective). This step is the direct result of exceptional and continued demand for Wallstrip type "C" (Convective) which requires the full use of the productive capacity of their Colnbrook factory.

● Plans for the merger of the resources of Reynolds T. I. Aluminium Ltd. with the British Aluminium Co. Ltd. are now well advanced and several changes of appointment have been made. Pending completion of the plans, the new appointments will cover the operations of both companies. Mr. Gerald Lacey, commercial director of the British Aluminium Co. Ltd., is now executive director (forward planning) with the responsibility for studying and co-ordinating long-term planning for the development of production, fabrication and research interests in the U.K. and overseas. Mr. G. A. Anderson, director and sales manager of the British Aluminium Co. Ltd., is now director of products and development with the additional responsibility for the technical service organizations.

General view of the Formica stand at the recent Hotel and Catering Exhibition. The object behind the design was to reproduce a typical modern hotel completely equipped with Formica surfaces. This reproduction included bedroom, bathroom, reception, bar, corridor and telephone kiosk, and the Formica surfaces used included Sequin, one of the latest patterns and Formica Beautyboard. A Vanitory unit, with curved surfaces, was on show in the bedroom



ADDENDUM

In the advertisement of Alfred Goslett & Co. Ltd., which appeared on page 25, of A. & B.N., January 27, 1960, it should be noted that the Swanlyne Cygnet basin is available for fixing on pedestal or legs only in the 22in by 16in size and that the smaller sizes are available only on concealed wall hangers.

CORRECTION

The following note should be substituted for that which appeared on page 93, of A. & B.N., January 20, 1960: Mr. A. Davey, M.I.H.V.E., has been appointed joint managing director of Norris Warming Co. Ltd. and Mr. N. Aldcroft has been appointed joint managing director of F. A. Norris & Co. Ltd., from January 1. Both companies are subsidiaries of Norris Warming Holdings Ltd.

NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

New Aluminium Panels

The Stenmar Panel, made of manganese silicon aluminium alloy and of Swedish origin, is now available in this country. In Sweden it has been used as a facing material for walls, partitions, counters, canopies, soffits, ceilings and for curtain walling. It is weatherproof and decorative, with pleasing sharp profiles and with a new interlocking design which allows for the secret fixing of round head screws and pins. The sections are supplied in lengths of 16ft by 4 in wide, or in sizes to order. Inside and outside angles with infilling strips (¾in wide) are also produced to the same design. An interesting feature of the sections is that there are vertical ribs on the reverse side to allow free ventilation behind the panels to resist any corrosive action. The material is available in either silver anodized, colour anodized to choice, in plain or polished finish as required.

*Marsland & Co. Ltd., Conington Road, Lewisham, S.E.*13.

Readers' Information Service, Ref. A. Date 10/2/60.

★

New Gas Incinerator (B)

This company has obtained a licence to manufacture the American Caloric disposer in the U.K., throughout the Commonweath and in Europe. It will be some time yet before units are made in this country, but in the meantime models will be imported direct from America. It is a gas burning unit which is suitable for use by local authorities, hospitals, schools and in flats, factories, shops, hotels, etc. It is claimed to be capable of disposing of combustible refuse, whether wet or dry, without smoke, smell or smuts. The disposer is completely automatic and to use it the lid should be opened, the waste inserted, and then the lid closed and locked in position. The timing device should then be set and from then onwards neither the lid nor the ashpit can be opened until the destruction cycle is completed. The combustion chamber is constructed of heavy gauge steel with thermo-jet porcelain enamel coating, whilst the chamber liners are of cast iron. The unit is of completely welded construction and the jacket is insulated with Fibreglass faced with aluminium foil. There is a large capacity ash drawer, control is by a single knob and there is a special pilot for instant ignition. Overall dimensions: 36in high by 26½in deep by 18in wide. The loading door opening is 11¼in by 11¼in. Capacity: 2 cu ft. Gas input: 32,000 B.Th.U./hr. Gas connection: ½in B.S.P.

B

*Radiant Heating Ltd., Radiant Works, Barnsbury Park, London, N.*1. *North* 1677.

Readers' Information Service, Ref. B. Date 10/2/60.

★

New Sound Level Meter (C)

A new portable sound level meter has been introduced by this company. The unit (type 1400E) is equally suitable for such tasks as checking that the noise level of engines, domestic equipment, fans, office machinery and other equipment does not exceed a given level, measuring noise levels in studios, lecture rooms and aircraft cabins, locating noise sources and generally providing an accurate reading of any sound from 24 to 140 dB. In the new unit, transistors replace the thermionic valves of previous instruments, and as a result the overall size is considerably smaller. Sound is picked up by a non-directional crystal microphone which can be folded neatly away into a recess in the case. When it is lifted into the working position the meter is automatically switched on and a reading can be taken immediately. In addition to a high-gain amplifier and indicating meter, the instrument includes weighting networks which simulate the frequency response of the human ear. Overall dimensions: 8¼in by 5¼in by 3¼in. Weight: 4lb (including dry batteries sufficient for 60 hours operation). A leather camera-type case is available and an external power unit can be supplied for mains operation.

C

*Dawe Instruments Ltd., 99 Uxbridge Road, London, W.*5.

Readers' Information Service, Ref. C. Date 10/2/60.

★

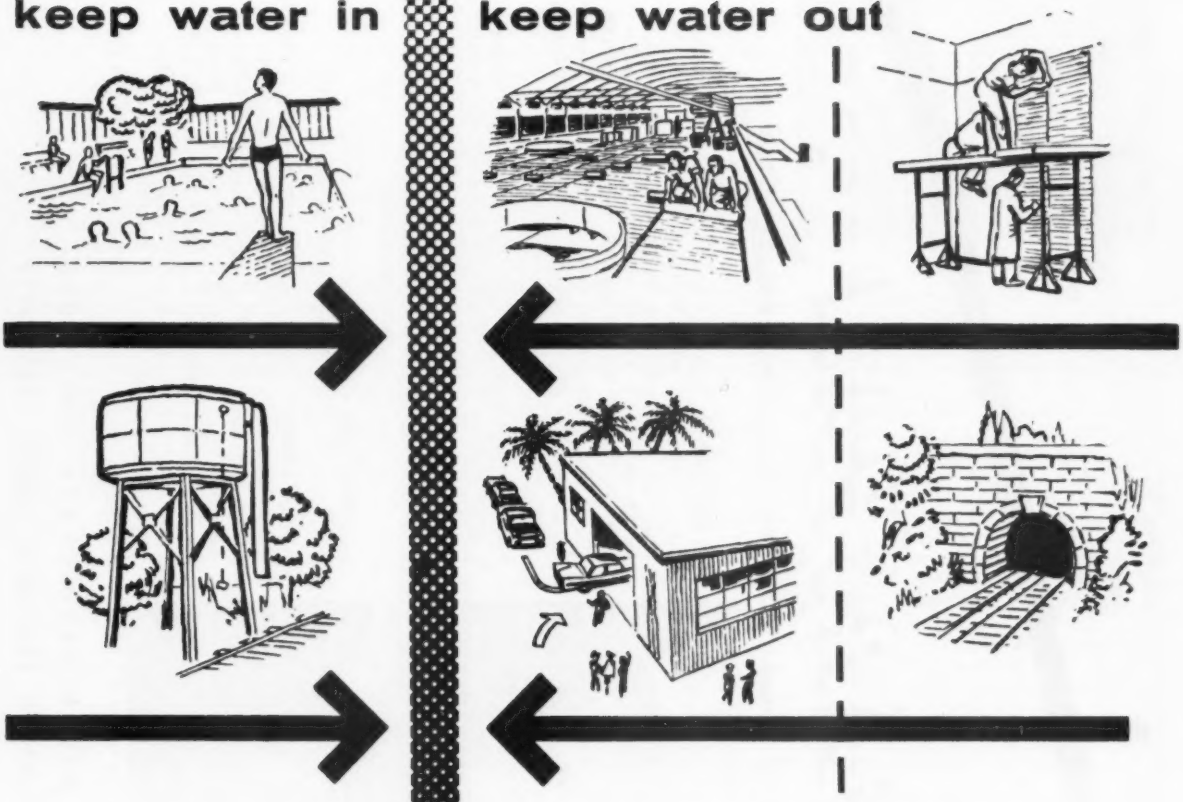
New Floor Polishing Machinery

New and improved models have recently been added to the Dixon range of floor cleaning and polishing machines. The Dixon Senior polisher is now available with a specially developed suction-chamber and dust-bag and there is also a lightweight version of the Civic Junior polisher. A new light and mobile machine known as the Regent has been produced for heavy duty floor drying and this embodies an extensible drying nozzle, detachable four gallon tank and double insulated sound proof motor. It is stated that this machine will dry scrubbed floors without leaving a sludge-film and it does away with the necessity for subsequent hand mopping. New three and four brush (27in wide) combined polishing and vacuum cleaning machines have been added to the Columbus range. They are considered to be particularly suitable for maintenance of large open floors and corridors such as are to be found in hospitals and they incorporate the new hospital pattern disposable dustbag. They can be used for floor to ceiling vacuum cleaning.

Columbus-Dixon Ltd., Wembley, Middx. Wembley 6001.

Readers' Information Service, Ref. D. Date 10/2/60.

keep water in **keep water out**



Oppanol BA outdates conventional waterproofing materials for pools, tanks and water towers, floors and foundations, roofs, walls and tunnels. A non-porous plastic sheeting, Oppanol BA has great strength and flexibility . . . does not rot or age . . . is easily and rapidly laid—lap joints are cold swell-welded—gives lifelong protection.

with* Oppanol BA *plastic sheeting

Literature and samples from

F. A. HUGHES & CO LTD

4 STANHOPE GATE LONDON W1

HYDE PARK 6080

Specialist laying contractors:
Acalor (1948) Ltd, Crawley, Sussex
F. Haworth (A.R.C.) Ltd, Ramsbottom, Manchester
Semtex Ltd, Salford, Manchester 3
Corrosion Proof Products Ltd, Brentford, Middlesex
Prodorite Ltd, Wednesbury, Staffs
Ancorite Ltd, London, SE25

CONDER CLEARSPAN

SLASHES BUILDING COSTS—OUTDATES TRADITIONAL CONSTRUCTION

Warehouse 110ft span. Gresham & Craven Ltd., Manchester. Architects: Francis Jones & Sons, Manchester.

CLEARSPAN Buildings have established a brilliant new conception of Industrial Building Design.
Hitherto "Standard" type buildings have been largely confined to the "Shed" variety; and their use limited accordingly. Now CLEARSPAN brings all the great advantages of Standard Construction to a very wide range of Industrial Buildings. CLEARSPAN sets a new standard of design and efficiency.

* Spans 25ft to 150ft.
* Roof slopes 4°-12°-17°-22°.
* Cranes up to 50 tons.
* Virtually maintenance free.

(Variations to order.)

Brochure with 32 pages of facts, drawings and photographs sent on request.

CLEARSPAN *Buildings are used by many leading Industrial concerns including:*

Atomic Energy Commission.
British European Airways Ltd.
De Havilland Engine Co.
Esso Petroleum Co. Ltd.
Imperial Chemical Industries Ltd.
Imperial Tobacco Co. Ltd.
J. Lyons & Co. Ltd.
Ministry of Works.
National Coal Board.
Shell Mex & B.P. Ltd.
Southern Electricity Board.
George Wimpey & Co. Ltd.

CONDER ENGINEERING CO LTD WINNALL WINCHESTER HANTS TEL: 5095
CONDER ENGINEERING CO (MIDLANDS) LTD PEEL HOUSE BURTON-ON-TRENT TEL: 5411

P.2218

NEW PRODUCTS (continued)

New Tabletopping (E)

A new tabletopping material is being produced by this company. Known as Gaytop, it consists of a fibrous backing impregnated with synthetic rubber to which a printed p.v.c. film has been laminated in such a way that the print is protected by the sheet. It is a flexible material and can be rolled so that continuous lengths may be applied over large areas without the necessity of butt joining. Unlike the harder surfaced laminated plastics, Gaytop can be cut with scissors. A flexible edge trim is available and can be bent around circular tables. It can be mitred with a hacksaw and is fitted with ¼in round headed No. 4 screws or escutcheon pins. A special Gaytop adhesive is available and this need only be applied to the surface which is to be covered. The adhesive itself provides a certain amount of slide so that the topping can be fixed correctly if it is not accurately placed in the first instance. The material is claimed to be resistant to boiling water and to food stains and to be easy to clean and quiet to work on. It is supplied in rolls 36in wide by 12yd long and is initially available in five patterns, each in a number of colours. The edge trim can be obtained in black and cream. Price: 1s 8d per sq ft. Adhesive: 3s 9d per ½pt (sufficient for 18 to 20 sq ft). Edge trim: 2s 6d per 4ft length.

James Williamson & Son Ltd., Lancaster. Lancaster 5222.

Readers' Information Service, Ref. E. Date 10/2/60.

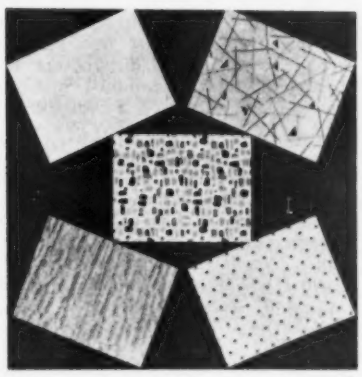
★

New Site Huts

Preline is the name given to a recently introduced range of prefabricated timber site huts. They can be erected or dismantled quickly and used on the most awkward sites. Internal linings, mineral wool insulation and roofing felt are pre-fixed and the units are also pre-glazed. Half lapped joints secured by cadmium plated bolts with wing nuts are used throughout and these provide watertight joining. Flat roofs are of green mineral surface roofing felt, prefixed to combined roof and ceiling unit which consists of ⅛in exterior quality plywood fixed on 2in by 2in joists to which is also fixed the ceiling of 4mm Gaboon-faced plywood. 1in of mineral wool insulation is fixed between these two skins. Walls are constructed of 4ft wide by 7ft high standard panels, clad externally and internally with 5mm Gaboon-faced plywood, whilst ¾in mineral wool insulation is fixed between inner and outer skins, giving a U value of 0·18. Windows measure 3ft 9in by 3ft 6in with the top section opening out, the bottom section fixed. In addition, the glass and window furniture is prefixed at the works. Doors are 6ft 6in by 2ft 6in and are of the flush plywood type or half or fully glazed and are complete with all fittings. Floors are in panels of ¾in exterior grade plywood or 3in by 2in joists. These panels measure either 8ft by 4ft or 12ft by 4ft and are designed to be laid direct on to level ground. Finish: exterior and interior walls, ceilings, underside of floor and floor joists are all finished with two coats of coloured Solignum.

J. E. Lesser & Sons Ltd., Hounslow, Middx. Hounslow 7281.

Readers' Information Service, Ref. F. Date 10/2/60.



E

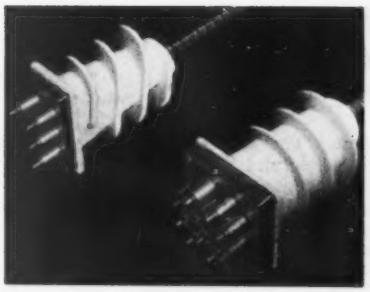
★

New Bench-mounted Grinder (G)

The new air-operated grinder known as the 319OM has been introduced for mounting on work benches. The grinder itself is mounted on a drilled baseplate which also makes it suitable for attaching to portable compressors for the maintenance of tools such as the touching-up of drill steels, breaker points, etc. It can also have a wide general application where occasional bench grinding tasks exist and where a supply of compressed air is to hand. The tool is powered by a vane-type motor which has a constant speed governor for maintaining the wheel at the most efficient cutting speed from no load to full load. This governor also eliminates the possibility of overspeed when running free, and there is a heavy valve spring and loose-fitting valve which prevents the valve from being jammed by foreign matter and a neoprene "O" ring which gives a leakproof valve seal. The grinder has a wheel which measures 6in in dia and is 1in wide, and has a free operating speed of 4,500 r.p.m. The total height is 9⅛in and the weight (including guard) 12lb.

Consolidated Pneumatic Tool Co. Ltd., 232 *Dawes Road, London, S.W.*6.

Readers' Information Service, Ref. G. Date 10/2/60.



H

New Prestressing Systems (H)

This company, who recently terminated their association with Udalls Prestressed Concrete Ltd., has introduced three new prestressing systems for both wire and strand. The first of these is known as the Spiral Wire System and consists of a cable of 0·276 dia wires either 8 or 12 in number, assembled and separated by high impact polystyrene spacers. Each wire is stressed separately. The anchorage consists of a casting 7in long with a bearing area of 4¾in by 4¾in. This casting is made from Meehanite type GE and obtains its efficiency and high factor of safety from spiral ribs which are set at 80 deg to the axis of the cable forming a continuous abutment over the entire length of the anchorage. These spiral fins enable consolidation to be obtained, whilst at the same time they neutralize any tendency to wedge into the concrete, which would exist through the body of the casting being slightly tapered. It is claimed that this type of anchorage provides lower stress intensities and also a more efficient end block condition. Grouting takes place from either of the two available types of bearing plates. The anchorages are provided with tapped holes for easier fixing onto form work and the nose of the casting is angled to simplify the location and taping of the sheathing into the casting. Our illustration is of an 8 wire (on the left) and a 12 wire (on the right) CCL Spiral Anchorage, showing the casting bearing plate, grips and grout entry

G

NEW PRODUCTS (continued)

hole. The second new system is the Spiral Strand System which embodies the same advantages as the spiral wire system in providing a compact anchorage with a high factor of safety. At the same time, the whole anchorage can be cast into the concrete leaving only a small portion of the wedge protruding behind the face of the anchorage after stressing. Grout holes and tapped fixing holes are provided and the only loose part is the wedge. The third system is the Standard Strand System which offers an alternative to the spiral strand anchorage if, for some reason, the anchorage cannot be cast into the concrete. The company has also produced new jacks for single wire stressing and these are available for hand or powered pumps with extensions of 5in, 10in and 15in and large dia strand jacks which are powered and capable of applying up to 80 ton stressing load with an extension of 15in. They can be used on 0·7in, ⅞in, 1in and 1⅛in strand and are power returned, embodying a wedge locking-off ram which is incorporated in the front of the jack. All controls are situated at the top of the jack itself.

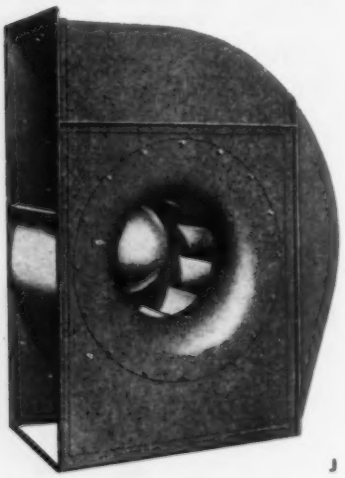
*Cable Covers Ltd., St. Stephen's House, Westminster, S.W.*1.

Readers' Information Service, Ref. H. Date 10/2/60.

★

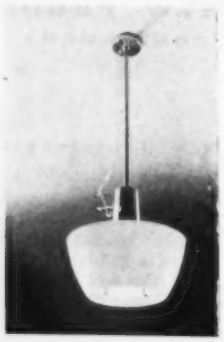
New Light Fittings (I)

A new range of lighting fittings has been designed to meet the requirements of the Ministry of Education. Primarily designed for use in schools, the three fittings of the range can, however, be used in any suitable location. Certain standard components are common to all three fittings and include cadmium-plated steel support



J

I



spider, lampholder (with heat-resisting phenolic body over an Edison screw porcelain interior), silver anodized aluminium lampholder cover, and an anti-static and light stabilized plastics diffuser. Illustrated from left to right are: S20 with silver anodized ceiling plate to cover a flush conduit box; S21 with silver anodized aluminium ceiling plate and fixing screws, flex clamps and circular plastics heat-resisting 2-core flexible cable; and S22 with silver anodized aluminium alloy ¼in dia tube with ceiling plate and screws. When erecting the S20, the ceiling plate should be screwed to the conduit box and the support spider placed above the holder, which should then be wired in the normal way. Alternatively, the holder can be wired in advance and the assembly fixed to the box after the electrical connections have been made. The spider should then be compressed to allow the lampholder cover to pass over until it locates itself. The diffuser should then be hooked onto the ends of the spider to provide a permanent non-swinging position. Flex pendants are assembled in the same manner except that flex clamps are provided at the ceiling and holder positions. Tube pendants are similar, but with the lampholder screwed to the tube. Relamping can be carried out wihout removing the diffuser. The fittings will take 150 or 200W E.S. lamps and the light output ratio is stated to be over 90 per cent. A cut-off angle of 45 deg ensures that the lamp is not visible from normal viewing angles. Prices: S20, 22s (4s 2d purchase tax), S21, 26s 6d (5s purchase tax), S22, 28s (5s 3d purchase tax). Lampholders cost 3s 6d extra.

Troughton & Young (Lighting) Ltd., 143 *Knightsbridge, London, S.W.*1. *Kensington* 3444.

Readers' Information Service, Ref. I. Date 10/2/60.

★

New Centrifugal Fans (J)

A new Aerofoil fan has been added to the Cyclone range of centrifugal fans. It is stated to have a total efficiency of 90 per cent and to be suitable for air conditioning and ventilating installations with large volumes and high water gauges, particularly high velocity systems. The fan casing is of welded steel plate, is rigidly braced with steel tees and angles, and incorporates a spun inlet cone. Casings can be supplied for either left- or right-hand rotation and with any of the eight standard angles of discharge positions. The impeller carries m.s. blades of Aerofoil section welded to a steel back-plate and shroud-plate. Ball or roller bearings are fitted to the C.I. bearing pedestal or, alternatively, to the built-in bridges and secured complete with steel supporting legs to the fan sides. The shaft is precision ground or turned according to diameter size. The drive can be by vee rope or by direct coupled drive. The range includes fans with inlet sizes ranging from 20in to 10ft dia. Double inlet double width fans are also available in all sizes.

Matthews & Yates Ltd., Cyclone Works, Swinton, Manchester. Swinton 2273.

Readers' Information Service, Ref. J. Date 10/2/60.

★

New Masonite Panelling

With regard to the new Masonite Royalcote Panelling, which was reviewed in these columns on December 16, 1959, we wish to make it clear that the sole concessionaires in the United Kingdom for the American Masonite products are the Wood Fibre Wallboard Co. Ltd., of 8 City Road, Finsbury Square, London, E.C.1. This company arranges for the distribution of this product through a number of distributors, including the under-mentioned, in addition to C. F. Anderson & Son Ltd.

Phoenix Timber Co. Ltd., Frog Island, New Road, Rainham, Essex. William Evans & Co. (Distributors) Ltd., 17 *Stanley Street, Liverpool*, 1. *Nevill Long & Co. (Boards) Ltd., Vernon House, Friar Lane, Nottingham. Nevill Long (Boards) Ltd., North Hyde Wharf, Southall, Middlesex, and Ian MacDougall Ltd.*, 20 *Hillneuk Drive, Bearsden, Glasgow.*

Readers' Information Service, Ref. K. Date 10/2/60.

The cheapest central heating there is — SOLID FUEL

Cheapest Running Costs. A new generation of house hunters is insisting on central heating. They regard it as just as much of an essential as the water supply. It's as well then that *solid fuel* central heating has such rockbottom running costs. Look at the figures on the right: *no other fuel* can compare for cheapness with solid fuel.

Low Capital Costs. It's not an expensive business installing a *solid fuel* central heating system. In fact, the recently developed small-pipe system, so perfect for smaller or medium-sized houses or bungalows, is of such low capital cost that central heating can now be put within the reach of a much larger section of the public than ever before. Special 5-year credit facilities are now available.

For Architects. "Central Heating for Houses." This 120-page survey of solid fuel central heating outlines the various systems available, from the open-fire-and-back-boiler to the latest small-pipe system. Copies 2/6 each. Write to the Coal Utilisation Council, 3 Upper Belgrave Street, London, S.W.1, for this booklet or any of the following publications: List of Approved Domestic Solid Fuel Appliances, Warmer Homes with Solid Fuel, Fuel Stores for Houses and Flats, Building for Warmth—all free; and for 1/6—Correct Fixing of Domestic Solid Fuel Appliances.

Compare the Costs! These are typical weekly costs, averaged over a year, for central heating and for hot water, summer and winter, in a three-bedroom house or bungalow. If you would like the data on which these figures are based, write to the Coal Utilisation Council, 3 Upper Belgrave Street, London, S.W.1.

C U C

		6 or 7 radiators and hot water ▼	2 or 3 radiators and hot water ▼
COKE	£9 per ton	9/9d	15/-
SMALL ANTHRACITE	£12 per ton	—	14/1d
GAS	1/4d therm plus, say, 2/8d week standing charge	16/1d	23/6d
ELECTRICITY	1d unit (No standing charge included)	18/2d	29/10d
OIL	1/5½d gallon	12/10d	22/8d

Seal and protect wood or cork floors with

ISOSEAL
DEEP SEAL

transparent non-slip

A durable, attractive, stain resistant, labour saving surface for wood and cork floors

specify

ISOSEAL
Penetrating Deep Seal

Details from

IBE — A PRODUCT OF THE IBE GROUP

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BRITISH BITUMEN EMULSIONS LTD.
Dundee Road, Trading Estate, Slough, Bucks
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BRISTOL · CHESTER GLASGOW

Everything including the kitchen sink

And it is a well-constructed sink unit of stainless steel. In fact all the Crittall Aquafont heavy and light duty catering equipment is well constructed. It is also practical, reliable and economical; therefore worth having. We would like to discuss it with you sometime. Apart from supplying sound equipment, CA also supply sound ideas. Good, workable ideas backed by experience and commonsense. It would pay you to meet the men responsible for thinking up these ideas. A few words with them may save more than a few headaches during the coming years. Ask to see them and hear what they have to say. You won't be bored.

CRITTALL AQUAFONT GROUP LIMITED

CA

Trojan Works,
35 Kentish Town Road,
London, N.W.1.
GULliver 6171.

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to February 10, 1960.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

The new buildings of ordinary construction not exceeding 5,000 cubic feet	£3
Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add	4/–
Buildings over four storeys add 3*d* per 1,000 cubic feet extra for each storey up to eight	3*d*

ALTERATIONS AND ADDITIONS

Up to £100 cost		£3
Over £100 up to £1,000—	Per £100 cost	15/–
Over £1,000 up to £5,000	Ditto	5/–
Over £5,000	Ditto	3/–
Public buildings add 50%		
Steel framed or R.C. buildings.—See L.C.C. (General Powers Act 1955) also fees in respect of means of escape in case of fire.		

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.	
Allow for Fire Insurance	1/6%
Allow for Water for use on the works and apparatus	5/–%
Allow for hoarding, or similar licences in City of London	say £10
Do., under Borough Councils per each month	say 2/6
Allow for Office, Fire, Attendance on C. of W., etc. p. week	say 30/–

ADMINISTRATION AND CONTROL

Percentage costs on normal contracts in accordance with Builders Turnover per Annum, see appropriate column hereunder:

	Turnover in Thousands			
Place	25	50	75	100
At depot	13%	9%	7%	6%
On job	6%	5½%	4½%	4%

SPOT ITEMS AND DEMOLITION, ETC.

	Per ft run
Hoarding erected and removed	20/–
Planked gangway with handrail, etc. do.	10/–
Proper gantry do.	78/–
Sleeper roadways	16/6
Needling, strutting and shoring including all labours and use and waste in erection and removal	Per ft cube 20/–

ALTERATION-DEMOLITION—	1 Brick	1½ Brick	2 Brick	Per yard cube
	(Per ft super)			
Cutting out cement concrete or brickwork in small quantities	1/3	2/6	3/7	64/–
Do. if either in very small quantities or reinforced	2/2	4/1	6/–	95/–
Debris into baskets and removed from inside to outside of bldg.	3½*d*	7*d*	9*d*	14/–

SCAFFOLDING (Avg. 45ft high)

Per yard superficial	Period 1 month	3 months	5 months
Putlog type—4ft 6in lift	8/–	10/6	13/6
Do. —6ft 0in do.	5/6	8/–	10/6
Independent type—4ft 6in lift	10/6	14/6	19/–
Do. —6ft 0in do.	7/6	10/6	13/–

EXCAVATION

Per Yard Cube *By hand*	Common Soil	Loamy Clay	Gravel or Clay	Rock or similar
Reducing levels	7/6	8/10	10/3	68/–
Surface trench not exceeding 5ft deep	14/10	17/8	23/7	84/–
Do. from 5ft to 10ft	27/–	30/4	36/4	91/6
Do. from 10ft to 15ft	30/9	36/7	42/11	100/–
Fill in and ram	6/–	6/7	6/7	6/5
Barrowing 25yd	3/3	3/7	3/7	4/2
Load vehicles and tip 8 miles away	17/9	17/9	18/9	19/7

PLANK AND STRUT

	To 5ft deep	5 to 10ft deep	10 to 15ft deep
To trenches, in normal ground			
Per Ft Super	7*d*	8½*d*	10*d*

CONCRETE 1½in Ballast Aggregate

	Per yard cube
1 : 3 : 6 Cement concrete in foundations	80/–
Do. around grillages	83/–

REINFORCED CONCRETE

	Per cubic yard
1 : 2 : 4—¾in concrete, worked around reinforcement, between formwork in the following (at various levels):	
Foundations and surface beds	89/9
Walls, 12in thick or more	96/–

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	
Up to 36	4/7	5/2	5/4	Per cubic ft
36 to 72	4/8	5/–	5/2	do.
72 to 144	4/5	4/11	5/1	do.
over 144	4/3	4/10	5/–	do.
Walls 6in thick			18/–	Per super yd
Do. 9in thick			29/1	do.
Suspended floors average 6in thick			19/8	do.

REINFORCING RODS (round) bent and placed. (Ex Mills)—

Per cwt.	¼in	⅜in	½in	⅝ to 1in
In floors and beams	92/–	80/–	75/9	67/6
In walls	98/–	85/–	79/9	70/6
In columns	105/6	90/3	81/–	73/9

FORMWORK and Supports (4 times use)—

Floor soffits	Beams	Walls	Columns
20/3 per yard	3/–	2/8	2/8 per super ft

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)—	In 1 : 3 cement mortar
Flettons or other similar *at* 118/– per 1,000	42/–
Mild Stocks or do., *at* 174/– per 1,000	57/9
Second Stocks or do., *at* 329/6 per 1,000	66/–
Southwater engineering or similar bricks, *at* 400/6 per 1,000	78/–
Blue Staffordshire wire cut *at* 542/6 per 1,000	94/3
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar	2*d*
Add if brickwork commences above ground level	4/9
Do. if in backing to masonry including cutting and waste for bonding	3/10
Do. If circular-on-plan	9/–
Do. If in underpinning	9/–

BRICKWORK IN THICKNESS NOT REDUCED—

Per yard superficial	Brick, on edge walls	Half-Brick walls	1 Brick finished fair both sides	11in Hollow with 2in cavity and G.I. TIES
In Flettons or similar	18/3	23/4	43/1	49/3
In second stocks or do.	31/–	41/–	73/–	72/–
Add: for pointing as work proceeds, per side	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of ¾ brick	Fletton 57/–		Stock 72/–	per yd super
Do. all as last but an average total thickness of 1¼ bricks	78/–		102/6	do.

WALLS BUILT IN SUPERIOR BRICKS—

In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—

	Half-Brick	One Brick	
In first-quality Stocks at 355/6	44/–	73/–	Per yd super
In red facings at 330/–	38/6	67/9	do.
In blue pressed facings at 604/–	60/–	104/9	do.

GENERAL AND SUNDRY

Cut tooth and bond new brickwork to old			5/9 per ft
Damp-proof course, double slate, horizontal			4/9 super
Do., as last, but vertical			5/9 do.
Do., bitumen, Hessian base, horizontal			1/– do.
Frames, bed and point in cement mortar, one side 4½*d* per ft run			
Window board of 6in by 6in by ⅞in rounded on edge			4/3 do.
Terra-cotta air bricks built in and pointed, including flue	9in by 6in 6/6		9in by 9in 11/6 each
Chimney pots, plain red, set and flaunched in cement mortar	1ft high 17/–		2ft high 24/– each
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar	Up to 5ft super 15/2		5ft to 10ft super 18/9 each
	10ft to 20ft super 28/5		20ft to 40ft super 47/– each
Leaving holes through walls for pipes and afterwards making good	Small pipes 3*d* per in depth		Large pipes 6*d* per in depth
Cutting do., and afterwards to	11*d* do.		2/– do.
Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout			1/3 per in depth, each
Holdfasts of stout iron hoop bent, holed and screwed to frame and built in			1/7 each

MEASURED RATES—*Continued*

BRICKWORK—*Continued*

FACING—

Extra only over common brickwork (118/– per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Fletton (150/–)	4/2 per yd super
White (220/–)	9/9 do.
First Stocks (355/–)	19/8 do.
Reds (350/–)	19/3 do.
Blue pressed (604/–)	38/3 do.

If built in English bond, *Add* 12½% to above.
If do., half-brick stretcher bond, *Less* 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first-quality Stocks	8/–	12/–
In red facings	7/5	11/11

Plumbing angles	2*d* per ft run
Fair cutting	1/– do.
Fair rake cutting	1/7 do.
Fair circular cutting	1/7 do.
Fair squint or birdsmouth	1/11 do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4½in soffits and pointing	ft run 3/9
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints	ft super 19/–

PARTITIONS

(75 yards)	Per yd super— 2in	2½in	3in
Concrete slab partitions in cement mortar	11/5	13/8	14/8
Hollow clay do.	13/5	15/6	18/–
Cutting and bonding at angles, intersections and ends		5*d* ft run	

PAVING	1in	1½in	1¾in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8 yd super
1 by 5in skirting, square top and cove bottom			2/10 ft run
⅜in by 6in red quarry tile paving			32/– yd super
⅜in by 6in do. skirting			1/11 ft run
Jointless flooring, ¼in thick			20/– yd super

ASPHALT (normal conditions for 200 yds super and upwards)

⅜in pitch mastic floor in one coat on felt underlay on prepared concrete base	B.S. 1450/48	1375/47 Brown	1375/47 Red
Per yd super	13/6	15/– Mastic	16/6 Natural Rock
Unit		B.S.988	B.S.S.1162/44
⅜in in two thicknesses on felt underlay on prepared concrete base	yd super	14/3	18/6
Do. in narrow widths	ft super	2/–	2/7
⅜in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/4	2/7
External angles	each	6*d*	6*d*
Internal do.	each	10*d*	10*d*
Tanking or Damp Course		B.S.1097/43	B.S.1418/47
Vertical in two thicknesses	yd super	19/6	24/6
¾in horizontal do.	yd super	13/–	18/9
Vertical in three thicknesses	yd super	26/6	33/–
1½in horizontal do.	yd super	19/–	27/6
Labour rounded external angle	per ft run	6*d*	6*d*
Do. internal angle fillet	per ft run	10*d*	11*d*
Do. double do.	per ft run	1/8	1/8
Collars to small pipes	each	3/6	4/–
Do. to large pipes	each	6/9	7/6

DRAINAGE

Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus. In ordinary ground—moderately firm. (By hand)

Per lineal yd	
1ft in depth	6/2
2 do.	10/5
3 do.	24/–
4 do.	31/–
5 do.	38/4
6 do.	57/8
7 do.	71/–
8 do.	84/–
9 do.	97/-
10 do.	110/–
11 do.	134/6
12 do	152/–

Portland cement (1 : 6) concrete bed under drain pipes and benching up on both sides—6in thick	Per yd run 4in 18in wide 8/6	6in 20in wide 10/–	9in 23in wide 12/3

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	Per ft run 4in	6in	9in
"Best"	2ton or more	3/2	4/9	7/10
	50 pieces and over	3/6	5/5	8/9
	under 50 pieces	3/7	5/6	9/1
"Best Tested"	2ton or more	3/11	6/1	9/7
	50 pieces and over	4/4	6/6	10/7
	under 50 pieces	4/5	6/8	11/3
"British Standard"	2ton or more	3/5	5/1	8/4
	50 pieces and over	3/10	5/9	9/4
	under 50 pieces	3/11	5/10	9/8
"British Standard Tested"	2ton or more	4/–	6/1	10/1
	50 pieces and over	4/7	7/–	11/6
	under 50 pieces	4/8	7/1	11/11
Extra for bends "Best"—Contained in 2ton lots		4/2	6/3	16/6
Extra for junction "Best"—4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9	27/–½

IRON DRAIN PIPES—

Heavy cast iron socketed and laying and jointing in molten lead—	Per ft run 4in	6in
In main runs	14/5	20/2
In branches	16/6	23/4
	each	
Extra over last for bends and extra joint	30/2	66/1
Do. on do. for junctions and extra joint	45/4	86/–
Cast-iron gulley with 10½ inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	183/–	—
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	85/9	143/6

MANHOLE SUNDRIES—		4in	6in
Salt glazed straight half-round main channels	each	6/–	8/7
Do. curved	do.	14/–	20/–
Do. three-quarter section splayed channel bends (Barrons or similar)	do.	18/–	26/6
Heavy manhole steps galvanized	do.	9/9	—
Fix only manhole covers	do.	11/6	—
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do.	41/–	—

ROOFER

CORRUGATED ASBESTOS SHEETS

P.C. 8/3¾ per super yd including side and end laps and fixing to wood	167/– per square
Eaves filler pieces	2/6 ft run
Adjustable ridge	4/9 do.
Barge boards	3/4 do.
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	265/– per square
Extra over last for top edge or abutment cutting	1/4 ft run
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/9 do.
Do. Valley tiles including cutting and waste on both sides	11/6 do.
Do. Bonnet hips and do. bed and point	12/– do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit	13/– yd
Do. but in one layer only	9/6 super

WELSH SLATING	Per square 16"+10"	18"+10	20"+10"
3in lap, 2 zinc nails to each slate	343/–	357/–	416/–

Additional labours	Per ft lineal 1/9	1/10	2/2
At tops, verges and abutments—straight			
Do. —raking	2/7	2/9	3/1
At hips and valleys (each side)	2/7	2/9	3/1
At eaves, double course	3/6	3/8	4/2
Do. to falls	5/3	5/4	6/3

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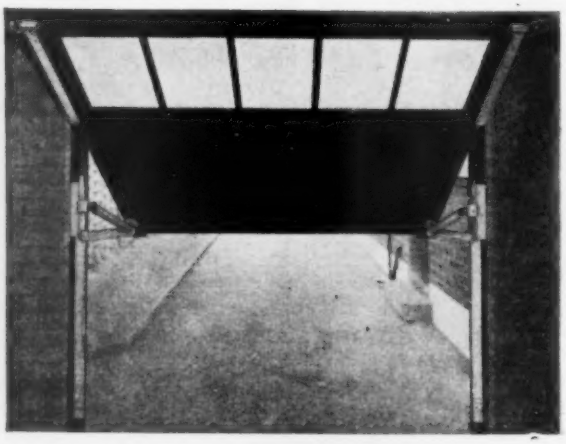

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MEASURED RATES—*continued*

FLOORS AND FLATS

Hollow tile *in situ* or pre-cast units hoisted, bedded and fixed—

	Superimposed load in lb per ft super	Span 12ft	Span 16ft
Per yd super	50	44/9	52/9
	100	47/-	59/-
	150	53/9	67/3

20lb has been allowed to cover dead load in surface, finish.

Fair edge to slabs	9*d* per ft run
Splay cutting and waste	1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—

Labour, materials, waste nails hoisting and fixing	Plates	Joists (per ft cube)	Rafters (per ft cube)	Trusses (per ft cube)
	19/4	20/10	22/7	26/-

FLOORING— Per square—	⅝in	1in	1¼in
Rough boarding	145/-	172/-	204/-
Softwood batten flooring, straight joints, splayed headings	148/-	169/-	207/6
Do. grooved and tongued	169/6	191/6	246/-

SKIRTING— Per ft superficial	½in.	⅝in	1in
Wrot softwood moulded skirting with grounds and backings plugged	4/-	4/8	5/3
Mitres to do.	3*d* per sectional in.		
Fitted ends	2*d* do.		

SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—	Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	3/6	6/5
Add if fitted with beads	6*d*	6/5
Add if hanging on butts	3/- each	

WINDOWS, hung on lines—

Softwood cased frames, 1 in inner and outer linings, 1¼in pulley stiles, 2in sashes, oak sill

Per ft super	Overall size of frames— 6ft	21ft	32ft	44ft
Windows as described	21/6	12/-	9/-	7/-
Add if sashes in squares, about 2ft super in each	—	1/8	2/2	2/2
Extra for hanging sashes with lines, weights and axle pulleys	each— 38/-	66/-	77/-	88/-

FINISHINGS TO OPENINGS Per ft super—	⅝in	1in	1¼in	1⅝in
Softwood linings, tongued at angles and tongued to frame including grounds and backings	4/8	5/3	5/10	6/4
Add if crosstongued	8*d*	8*d*	8*d*	8*d*
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	3/10	4/4	5/-	5/6
Add for ends to last notched, returned and rounded	1/1	1/2	1/3	1/4

Per ft run— Softwood wrot and fixed in	Sectional area in in— 1	2	3	4	5	6
bearers, backings, grounds, fillets, and similar	4½*d*	7*d*	9½*d*	1/-	1/3	1/5
Add if in short lengths	2*d*	2*d*	2½*d*	2½*d*	3*d*	3*d*
,, if plugged to brickwork	6*d*	6*d*	6*d*	6*d*	6*d*	6*d*
,, if framed as in legs and bearers	3*d*	3*d*	4*d*	4*d*	6*d*	6*d*
,, if rebated or grooved or beaded	2*d*	2*d*	2*d*	2*d*	2*d*	2*d*
,, if chamfered or rounded edges				3*d*		
,, if moulded in architraves, capping, etc.				6*d*		

DOOR FRAMES Per ft run— Per sectional in—	6in	8in	10in	12in	13in
Softwood, wrot, reb. & rdd...	2/3	2/8	3/2	3/6	3/10

DOORS—Per ft super Number of panels— 2in Softwood square framed and flat panels, both sides, on butts	1 6/-	2 6/10	3 7/5	4 8/-	5 8/4	6 8/10
1½in do	5/4	6/2	6/7	7/2	7/7	8/1
Add for each side moulded	3*d*	4*d*	5*d*	6*d*	7*d*	8*d*
Add B.S. flush panelled	1/6	1/6	1/6½	1/7	1/8	1/8

Per ft super— In shelves, table tops, wrot and fixed	⅝in 2/5	1in 2/9	1¼in 3/4	1⅝in 3/9
Do. in divisions and ends framed	2/9	3/1	3/8	4/3
Add if crosstongued	6*d*	6*d*	6*d*	6*d*
Add if buttoned	6*d*	6*d*	6*d*	6*d*

SUNDRIES—Per ft run—	In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads	6*d*	4*d*	2*d*
Rounded heel or hollow		4*d*	
Tongued and grooved angle		6*d*	
Glue blocking		6*d*	
Mitres	3*d*	per sectional in	
Fitted ends	2*d*	do.	

STAIRCASE—	Per ft super		
1¼in Softwood treads with moulded nosings 1in raisers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	6/6		
Do. but in winders	8/-		
1¼in crosstongued landing on framed carriages	6/3		
2in moulded string	5/6		
2in. do. ramped	14/-		
Ends framed to newel	10/- each		
Tongued heading joints	6/- do.		
Ends of treads and risers housed to string	3/6 do.		
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/- do.		
Balusters about 2ft 9in long, square and framed each end each	1in 2/6	1¼in 3/1	1⅝in 3/6
3½in by 3½in square newel, framed	4/- per ft run		
African mahogany moulded 3in by 2in hand-rail. (Joints below)	9/3		
Do. ramped 18in girth (do.)	54/- each		
Do. wreathed do. (do.)	160/- do.		
Joint or framed ends	12/- do.		

FIXING ONLY IRONMONGERY	To deal	To hardboard
Barrel bolts	1/10	2/9 each
Flush bolts	5/6	4/10 do.
Sash fasteners	2/6	3/- do.
Rim locks and furniture	4/6	6/- do.
Mortice locks and do.	7/6	17/9 do.
Cupboard locks	2/9	3/5 do.
Casement fasteners	2/3	2/9 do.
Do. stays	2/3	2/9 do.
Grip handles	2/7	3/5 do.
Spring catches	2/3	2/9 do.
Cabin hooks	1/10	2/5 do.
Floor springs including oil	49/-	63/- do.
Overhead springs	14/7	20/- do.
Springhinges	14/-	19/- do.

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix	81/6 per cwt
Do. but in compound girders	91/6 do.
Do. but in stanchions	93/6 do.
Trusses	130/6 do.
Additional cost per cwt over basic sections for following R.S.J.s	
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6½in, 20in by 7½in	8*d* per cwt
22in by 7in, 1/1 cwt, 4in by 3in	1/10 do.
5in by 3in, 5in by 2½in	2/2½ do.
6in by 3in, 24in by 7½in	2/6 do.
3in by 3in, 2/9 cwt 4¾in by 1¾in	4/- do.
3in by 1½in	4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	174/- do.
Forged straps	132/- do.
Wrot iron balustrade	175/- do.

RAINWATER GOODS

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel	Per ft lineal 2in	3in	4in
distance pieces to plugs in brickwork	4/5	4/10	6/2
Extra for shoes each	5/7	7/2	10/3
Do. junctions do.	8/5	10/9	15/7
Do. bends do.	6/7	8/6	10/10

RAINWATER GUTTERS Per ft. run—	4in	5in	6in
Half round C1 gutters jointed in red lead and bolted and fixed on iron brackets	3/11	4/8	5/9
Ogee do. All as last	4/4	5/-	6/3
Extra for stop ends	3/2	3/10	4/-
Do. angles or outlets	5/6	7/-	8/4

MEASURED RATES—*continued*

PLUMBER

EXTERNAL—	Soakers	Flats	Flashings
4lb Milled Sheet lead per cwt	148/–	189/–	201/–

LEAD PIPES: running joints, etc.

Per ft run		½in	¾in	1in	1¼in	1½in	2in
Main	Fixed	4/5	6/0½	8/3	10/5½	13/5½	17/11
Service	with	3/11	5/3½	7/–	8/7	10/10½	14/2
Waste	hooks	2/9	3/10	5/–	7/4	7/11	10/1
Bends	each	—	—	—	1/9	3/–	8/–
Solder joints	do.	9/8	11/8	13/5	13/8	18/2	23/8
Union and joints	do.	14/2	17/1	21/4	27/2	—	—
Stop valve and *do.*	do.	27/10	37/10	52/–	82/6	—	—
Bib valve and *do.*	do.	19/8	27/–	—	—	—	—
Ball valve and *do.*	do.	26/9	36/9	52/6	80/6	—	—
Sleeve and *do.*	do.	—	—	—	—	21/6	29/7

COPPER TUBES

	½in	¾in	1in	1¼in	1½in	2in
Tubes per ft run	3/1	3/11	5/–	5/9½	7/–½	10/–
Couplings: straight each	3/–	3/6	5/–	6/10	11/6	15/10
Do. Elbows each	5/4	6/3	8/4	12/2	18/6	35/–
Do. Tees do.	8/7	9/11	13/3	19/–	28/7	39/9
Overflow bends	9/2	11/8	16/5	—	—	—
Stop cocks do.	22/–	31/6	50/–	77/–	97/–	153/–

BLACK TUBING (Heavy) fixed with pipe brackets	½in	¾in	1in	1¼in	1½in	2in
Tubes, per ft run	2/7	3/–	3/7	4/6	5/–	6/11
Bends and fix, each	5/–	5/11	8/–	10/6	12/2	18/6
Tees and do.	5/5	6/9	8/–	10/2	12/5	18/2
Fire bends	2/2	2/9	3/1	3/4	4/5	8/–

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance pieces and molten lead joints	2in	4in	
	5/9	8/4	ft run
Extra only for bends and joint	14/9	23/8	each
Do. junctions and joints	16/4	29/9	do.
Do. cleaning doors	16/–	17/6	do.
Domical wire guards	2/6	2/9	do.

PLASTERER

			yd super
Lime and hair	¾in	Render and set	7/3
Do.	1¼in	Do. float and set	10/6
Sirapite	⅛in	Skimming coat	4/–
Do.	⅜in	Render and set	8/2
Do.	⅞in	Render, float and set	10/2
Portland	½in	Backing coat	4/10
Do.	⅝in	Plain face	8/3
Do.	¾in	Floor screed	5/–
Keenes	⅛in	Skimming coat	5/3
Dubbing	½in	Thick or less	3/–
Metal Lathing	⅜in	mesh by 24 Gauge	7/–

6in by 6in by ¼in Earthenware Plain Glazed Tiles, in fair quantity white, and setting (on prepared screed) .. 45/–
Rounded edge. Extra over last .. .. .. 6*d* per ft run
Angles in do. .. .. 6*d* each
Cutting and fitting. Around pipes or clips .. 1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.
Do. 6in to 12 in do. Add 40 per cent to plain surface.
Sundry labours per ft lineal:—
Quirk 3*d*. Arris 4*d*. Fair edge 3*d*. Rounded edge 5*d*.
Flush bead 1/9.
Mouldings—6*d* per in girth.
Jointing new plastering to old 4*d*.

POLISHING

	Ft super	6" Girth Ft run
NEW WORK—		
Staining, bodying-in and French Polish	3/–	2/–
Staining and wax polishing on hardwood	1/6	1/–
OLD WORK—		
Cleaning down old work and repolish	1/4	—
Stripping, preparing and repolishing	3/4	2/3

INTERNAL PAINTING

With white lead base in common colours, with brushes.

	Knot stop and prime	Prime and paint once	Prime and paint twice	Add for each extra coat
ON WOOD—				
General surfaces	2/9½	5/7	8/–	2/4 yd super
Running lengths not exceeding 3in wide	4½*d*	8½*d*	1/–	3½*d* yd run
Do. 3in to 6in wide	5½*d*	11*d*	1/4	4½*d* do.
Do. 6in to 9in wide	9*d*	1/6	2/1	7½*d* do.
Do. 9in to 12in wide	11*d*	1/11	2/7	9½d do.
Sash square each side	5/5	10/3	14/11	4/4½ per do.
Do. in large squares	8/3	15/–	21/–	6/7 do.
Opening edges	7*d*	1/2	1/9	7*d* each
Casement frames each side	6*d*	1/–	1/4	5*d* yd run
Mullions or transoms do.	8*d*	1/5	2/–	7*d* do.

ON PLASTER	One coat	Two coats	Three coats	
Paint on surfaces	3/1	5/10	8/3	per yd super
Do. on mouldings	3/5	6/5	9/2	do.
Do. on enrichment	6/2	11/8	16/6	do.
ON STEEL				
Paint on structural steel	2/5	4/7	6/10	do.
Do. on roof trusses	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares	2/10½	5/–	6/9	do.
Do. divided into extra large squares	2/5½	4/2	5/10	do.
Do. on opening edges	10*d*	1/6	2/–	each
Do. on rain water pipe	10*d*	1/6	2/2	yd run
Do. on do. gutter	1/3	2/8	3/7	do.
Do. on small pipe	3*d*	6*d*	10*d*	do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about ⅛in), glazing quality, in the following sizes, glazed complete—Per ft super
in plates not exceeding 2ft super in each 7/2
Do. 5ft do. 8/3
Do. (unless extra sizes) 45ft do. 9/7
Do. (unless extra sizes) 100ft do. 10/2
Add extra price for glazing with screw beads or clips 5*d* per ft super.
Do. if glazing bedded in washleather or velvet 9*d* per ft run.

SHEET GLASS, glazed, complete, per ft super, in new work: Ordinary quality clear, glazed to wood with putty:—

24oz as described			1/7¼
26oz do.			1/10½
32oz do.			2/3
⅛ figured rolled, glazed to wood with putty	Group 1	Per ft super	1/10¾
	Group 2	do.	2/4¾
Do. in standard tints		do.	2/10¾
No. 4 Fluted, glazed do.		do.	2/5
3/16in Reeded (narrow, broad, etc.)		do.	3/2½
Reedlyte do.		do.	2/4
Spotlyte do.		do.	2/4
¼in Rough cast do.			2/2¼
¼in do. wired do.		do.	2/6
¼in Georgian Rough Cast do.		do.	2/6¼

Add for glazing all as before but to steel to similar work as above, 1¾*d* per superficial ft.

PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—
ON PREPARED SURFACE

per yd super—	1 coat (finish)	2 coats (undercoat and finish)	*Add* if required Sealing coat	Stippling
Ordinary distemper on flat surface of plaster	10*d*	1/6	6*d*	3*d*
Washable do. on do. of plaster	1/–	1/10	6*d*	3*d*
Add if in margins, narrow widths or panels	30%	30%	20%	50%
Add if on mouldings	50%	50%	45%	—
Add if on enrichments	160%	160%	115%	—

PAPERHANGING

Hanging only—	Per Piece	Lining	Pattern
On walls		7/6	9/–
On stairs		10/3	12/–
On ceilings		9/–	10/6

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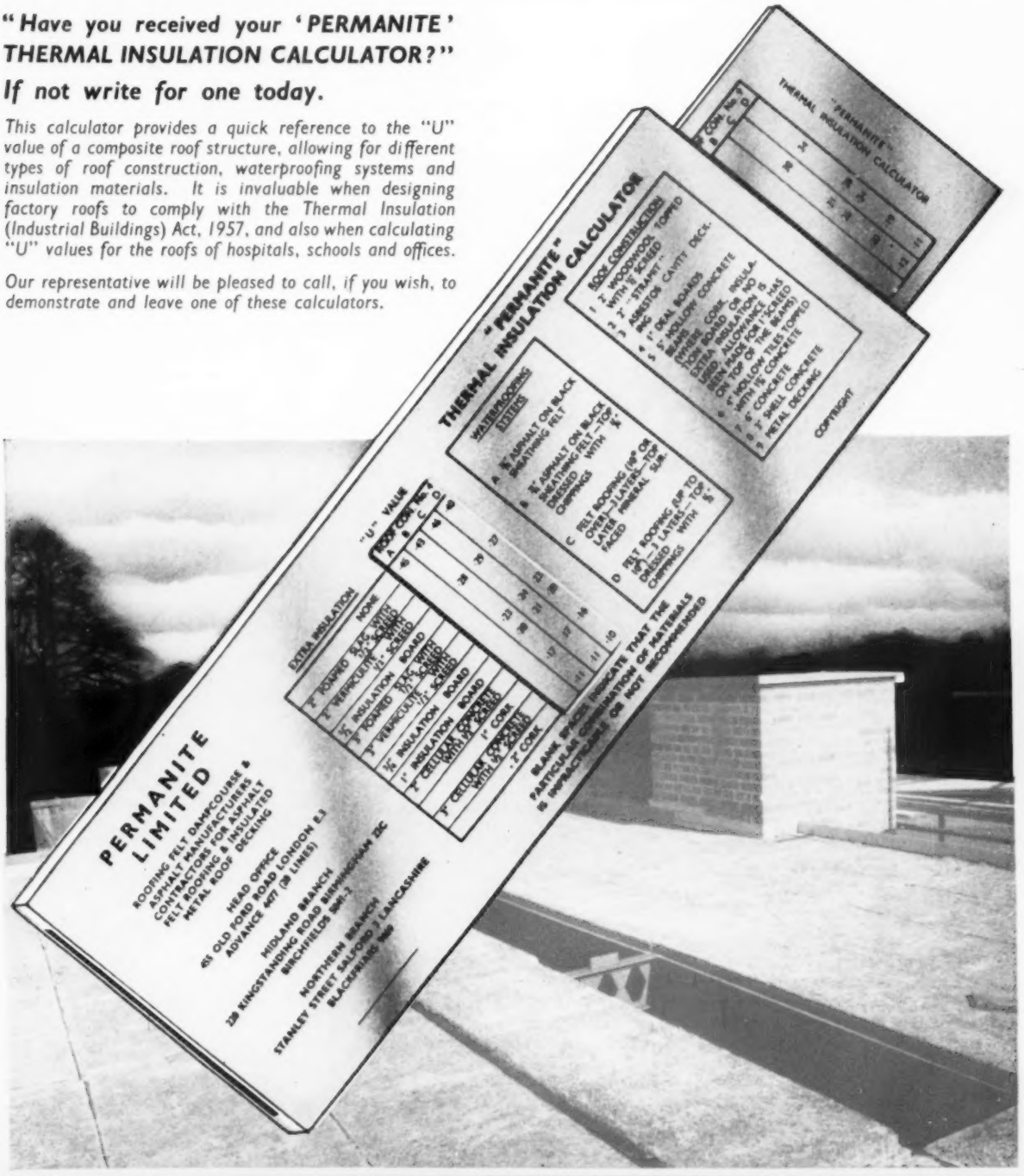
Our representative will be pleased to call, if you wish, to demonstrate and leave one of these calculators.



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The combustible content of LYTAG is less than ½%. It will withstand temperatures of up to 1,000°C without damage. At the same time, it provides a 'U' value well below that of ordinary concrete. For example, the 'U' value of a 6" LYTAG structural concrete element would be less than a half that of the same element in dense concrete.

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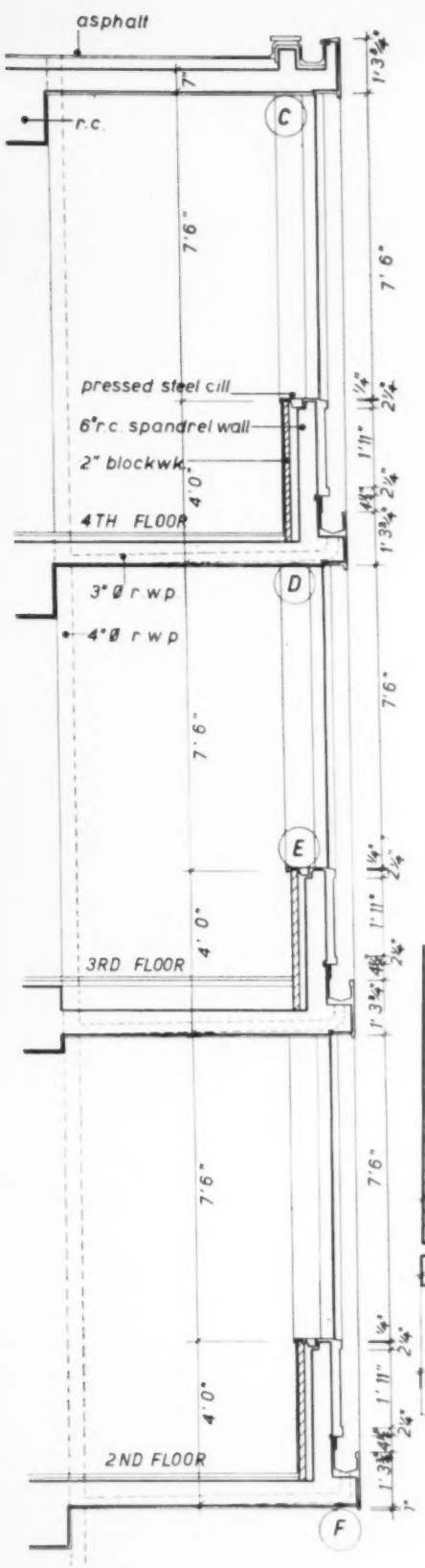
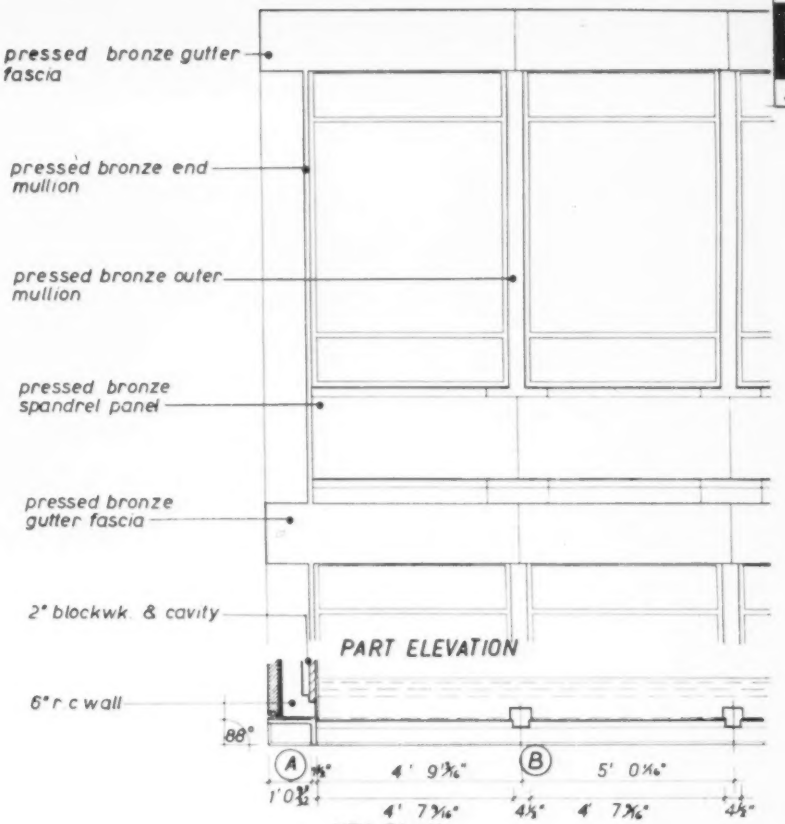


KEY SECTION

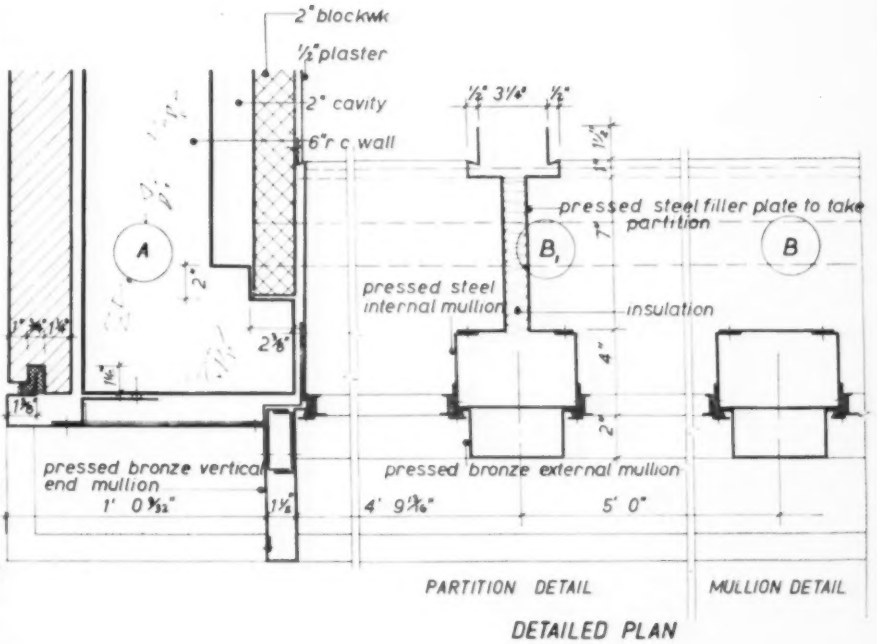
1/4"-1'0"



PART ELEVATION

KEY PLAN

1/4"-1'0"



PARTITION DETAIL

MULLION DETAIL

DETAILED PLAN

1/8 F.S.

THIS SHEET TO BE READ IN CONJUNCTION WITH A. 567

The three upper floors of the Peter Robinson store in the Strand are faced with bronze cladding. The bronze used is gilding metal consisting of 90 per cent copper and 10 per cent zinc. Prior to erection it was grain-blasted, toned and finally treated with a special compound of soot and oil to accelerate the natural weathering of the material so as to avoid streaking and other blemishes which occur when the material is left to weather normally. The architects are Denys Lasdun and Partners

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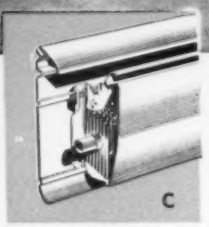

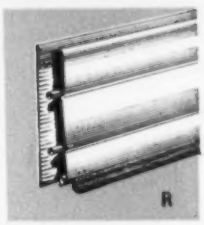

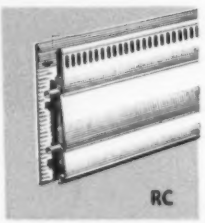

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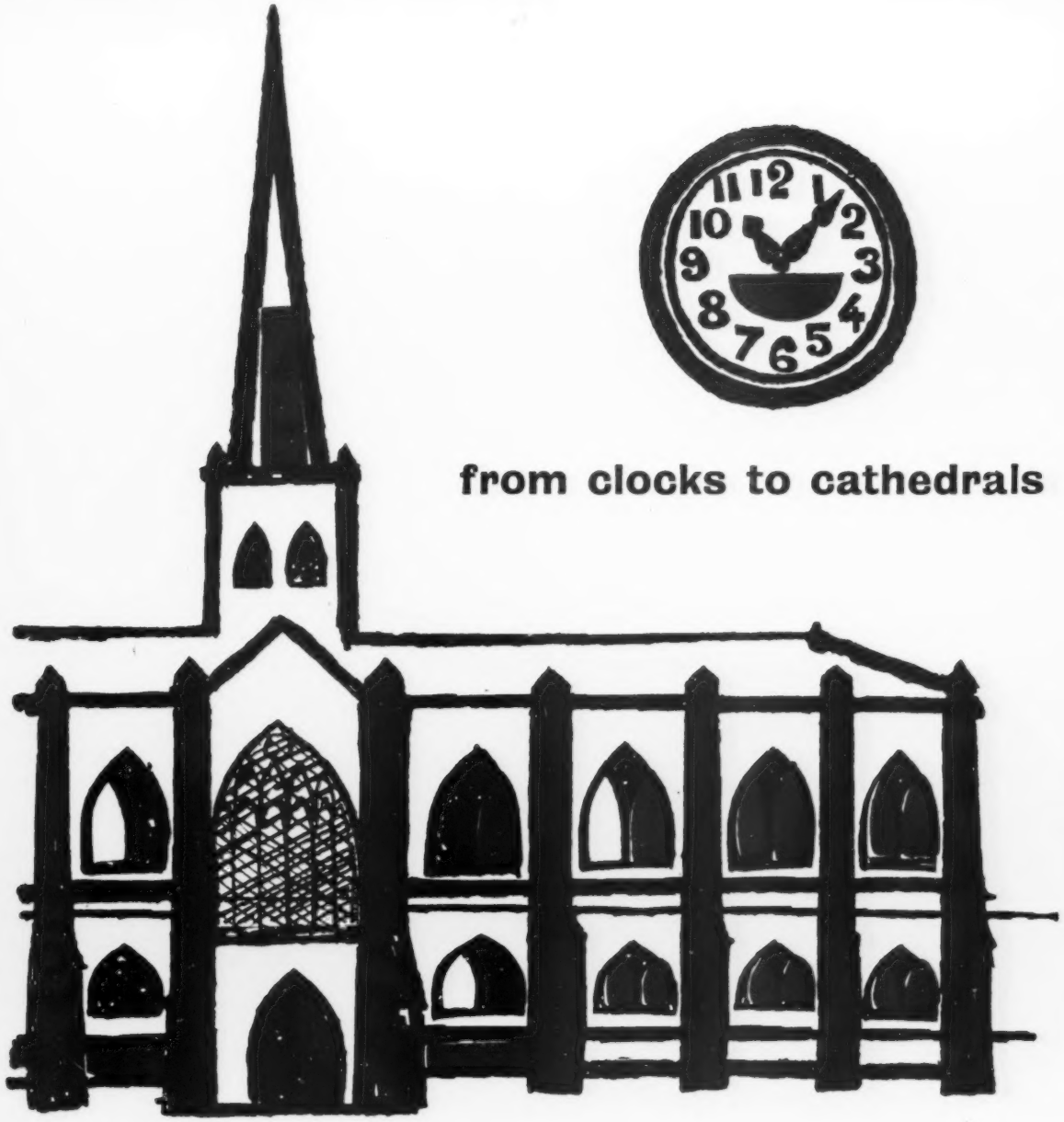

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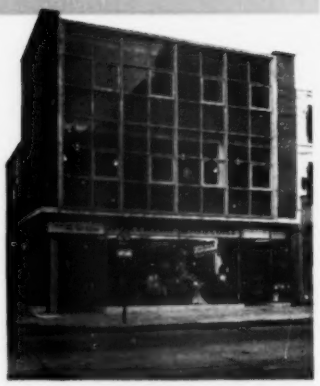
in succession to the late
M. Yendall, Esq., A.R.I.B.A.

Borough Engineer:
G. F. Winters, Esq., B.E., A.M.I.C.E.

General Contractors:
Geo. Wimpey & Co. Ltd., Hammersmith.



Flats: Oldham St., Manchester.

Architects:
John E. Beardshaw & Partners, London.

Contractors:
John Dickinson & Co. (Bolton) Ltd.

Thornaby-on-Tees
County Secondary School.

Architects:
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CONTRACT • NEWS •

Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked • are given in the advertisement section.

OPEN

BUILDING

ALDERSHOT B.C. (a) Erection of a detached house for superintendent at Park Crematorium, with drainage and site works. (b) Borough Engineer and Surveyor, Town Hall. (c) 2gn. (e) February 22.

* * *

ARGYLL C.C. (a) (1) Extension to Kilmorich School and (2) new school house at Kilmorich, Cairndow. (b) County Architect, Council Offices, Dunoon. (d) February 14.

* * *

BARNSLEY B.C. (a) Erection of 33 pairs of three-bedroom houses, 10 pairs of two-bedroom houses and seven pairs of one-bedroom bungalows. (b) Borough Engineer, Town Hall. (c) 2gn. (e) February 17.

BIRKENHEAD B.C. (a) Erection of 46 dwellings, 14 shops, 11 garages, at Prenton Dell estate, contract 11. (b) Borough Architect, 3 Conway Street, Birkenhead. (c) 2gn. (e) February 16.

* * *

BOLLINGTON U.C. (a) Erection of 28 bungalows with roads, sewers and water mains. (b) Engineer and Surveyor, Council Offices, Bollington, Cheshire. (c) 2gn. (e) February 15.

* * *

BRIDGE—BLEAN R.C. (a) Erection of two pairs of three-bedroom houses, one block of four flats and one block of four bungalows at Hollow Street, Chislet, and external services. (b) Council Offices, 41 Old Dover Road, Canterbury. (c) 2gn. (e) March 7.

* * *

CARDIFF C.C. (a) Alterations and additions at Cardiff High School for Boys, Newport Road. (b) City Architect, City Hall. (c) 2gn. (e) February 17.

* * *

CARDIFF C.C. (a) Construction of a public convenience and store at Maundy Stadium, North Road. (b) City Architect, City Hall. (c) 2gn. (e) February 17.

* * *

CARDIFF C.C. (a) Erection of (1) Group 1. 18 one-bedroom flats in three blocks at Newborough Avenue, Llanishen. (2) Group 2. 12 one-bedroom flats in two blocks at Gabalfa Avenue, Gabalfa. (b) City Architect, City Hall. (c) 2gn each contract. (e) February 16.

* * *

CHIGWELL U.C. Erection of a prefabricated public hall to seat 150. (b) Engineer and Surveyor, Council Offices, Old Station Road, Loughton, Essex. (e) February 22.

* * *

CLITHEROE B.C. (a) Erection of 56 dwellings at Manor Road, comprising 24 one-bedroom maisonnettes, 14 one-bedroom bungalows and 18 two-bedroom bungalows. (b) Borough Engineer, Town Hall. (c) 2gn. (e) February 25.

* * *

CONWAY B.C. (a) Erection of a block of conveniences about 1,800 sq ft floor area at Morfa camping ground. (b) Borough Engineer, Bedlandeb, Conway. (c) 3gn. (e) February 18.

* * *

CORNWALL C.C. (a) Erection of farm buildings and improvements to existing farm buildings (stage 2) at Coswinsawson Farm, Gwinear. (b) County Land Agent, 2 Strangeways Terrace, Truro. (c) 3gn. (e) February 20.

* * *

CROYDON B.C. (a) Construction of a swimming bath, kitchen and hall at St. Giles Special School, Featherbed Lane, Addington. (b) Chief Education Officer, Katherine Street, Croydon. (c) £1. (e) March 1.

CROYDON B.C. (a) Erection of a kitchen and dining room at Gonville School, Thornton Heath. (b) Chief Education Officer, Katherine Street, Croydon. (c) £1. (e) February 23.

* * *

CROYDON B.C. (a) Erection of a new hostel on Ashburton estate. (b) Borough Engineer, Town Hall. (e) February 17.

* * *

CROYDON B.C. (a) Erection of a new science laboratory and adaptations at John Newnham School, Selsdon Park Road. (b) Chief Education Officer, Katherine Street, Croydon. (c) £1. (e) February 23.

* * *

CUMBERLAND C.C. (a) (1) Erection of two-classroom extension at Houghton C.E. Primary School, near Carlisle. (2) Erection of a C.E. school at Boltons, near Wigton. (3) Erection of a three-classroom primary school at Salterbeck, Workington. (b) County Architect, 15 Portland Square, Carlisle. (e) (1) February 28. (2) March 15.

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HANDRAILS

EALING B.C. (a) Construction of boundary walls at Northolt Park estate. (b) Borough Surveyor, Town Hall, W.5. (e) February 25.

* * *

EASTHAMPSTEAD R.C. (a) Modernising 27 council houses at Roebuck estate, Bingfield, Bracknell. (b) Engineer and Surveyor, Council Offices. (c) 2gn. (e) March 7.

* * *

EAST RIDING OF YORKSHIRE C.C. (a) Erection of an assembly hall, area 3,075 super ft, at The Institute of Agriculture, Bishop Burton, near Beverley. (c) £2. (e) March 1.

* * *

EIRE, BALBRIGGAN. (a) Erection of a new factory, office block, stores, garages and ancillary site works, at Balbriggan, Co. Dublin, for Messrs. Wavin Pipes Ltd. (b) Mr. Thomas C. Whelan, National Bank Chambers, 1/2 Cavendish Row, Dublin, C.16. (c) £50. (e) February 16.

* * *

FLINT B.C. (a) Erection of 20 Homeville dwellings at Prince of Wales Avenue. (b) Borough Engineer and Surveyor, Municipal Offices, Earl Street, Flint. (c) 2gn. (e) February 15.

* * *

GOSPORT B.C. (a) Construction of public conveniences at Lee-on-Solent. (b) Borough Engineer, the Hall, Haslar Road. (c) 2gn. (e) February 23.

* * *

GRIMSBY B.C. (a) (1) General building contract including foundations, boiler-house and superstructure works at Havelock secondary school, with roads, drainage, etc.; (2) Heating and hot-water installations, including oil-fired boiler plant; (3) Electrical installation. (b) Borough Engineer and Architect, Municipal Offices, Town Hall. (c) £5 each contract. (e) February 13.

* * *

GRIMSBY B.C. (a) (1) General building contract including foundations, boiler house and superstructure works to the main two-storey and subsidiary single-storey blocks, with roads, paths, drainage, etc., at Grantham Avenue primary junior school; (2) Heating and hot-water installations with oil-fired boiler plant; (3) Electrical installations. (b) Borough Engineer and Architect, Municipal Offices. (c) £5 each contract. (e) February 13.

* * *

HORNSEY B.C. (a) External and internal decorations at various schools. (b) Borough Engineer and Surveyor, Town Hall, N.8. (e) February 22.

* * *

HUDDERSFIELD B.C. (a) Erection at Station Road. (1) Two-storey stores and workshop building, 140ft long, 30ft wide and 33ft high, with steel frame and brick and concrete construction; (2) Two-storey canteen and welfare building, 80ft long, 39ft wide and 30ft high; (3) Renovation and conversion of existing building; (4) Miscellaneous works, road works and drainage. (b) Borough Engineer and Surveyor, High Street Buildings. (c) £10.

HUDDERSFIELD B.C. (a) Offices, changing-room, potting shed, etc., at Fernside Park, Aldermonbury. (b) Borough Architect, High Street Buildings. (c) 1gn. (e) February 16.

* * *

HUNTINGDON R.C. (a) Erection of six bungalows at Great Gidding. (b) Surveyor, Montagu House, Huntingdon. (c) 2gn. (e) February 24.

* * *

ILFORD B.C. (a) Construction of sports pavilions in the following parks: Seven Kings Park, Goodmayes Park and Goodmayes Park Extension. (b) Borough Engineer, Town Hall. (c) 2gn each. (e) February 23.

* * *

LINCS (PARTS OF KESTEVEN) C.C. (a) Adaptations and extensions at Easthing Borough County School. (b) County Architect, County Offices, Sleaford. (d) February 12. (e) March 2.

* * *

LINDSEY C.C. (a) Erection of (1) two-form infants' school at Heaphan Road, Gainsborough, covering 7,000 super feet floor area. (2) Extension to Gainsborough Technical College, 11,400 super feet. (3) Extension to Barton-on-Humber Grammar School, 10,500 super feet. (b) County Architect, County Offices, Lincoln. (c) 3gn. (e) March 17.

* * *

LIVERPOOL C.C. (a) Construction of an electrical substation at Fazackerley Cottage Homes, Liverpool, 10. (b) City Engineer and Surveyor, Municipal Buildings, 2. (e) February 15.

* * *

LIVERPOOL C.C. (a) (1) Construction of 12 aged persons' flats at Belem Tower, Aigburgh Drive, Liverpool, 17. (2) 23 dwellings, Heath Road, Greenhill Road, Liverpool, 18. (b) City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool 2. (c) 2gn each contract. (e) February 18.

* * *

LONDONDERRY. (a) Erection of a church hall at Strand Road. (b) C. H. Colhoun, 4 Castle Street, Londonderry. (c) 5gn. (e) February 22.

* * *

LUTON B.C. (a) Erection of a two-storey block of old people's dwellings at Farley Hill. (b) Borough Architect, Town Hall. (e) February 19.

* * *

MABLETHORPE AND SUTTON U.C. (a) Construction of Foreshore administration block with public lavatories, and eight shops, with public shelters on the Central Promenade, Mablethorpe. (b) Council Offices, Mablethorpe. (c) 3gn. (e) February 13.

* * *

MALDEN AND COOMBE B.C. (a) Erection of 10 garages and site works, Kingsnympton Park estate, Kingston Vale. (b) Borough Engineer and Surveyor, Municipal Offices, New Malden. (d) February 12.

MONTGOMERYSHIRE C.C. (a) Erection of a new grammar school adjacent to the existing secondary school at Welshpool. (b) Director of Education, County Offices, Newtown, Mont. (e) February 29.

* * *

NEWCASTLE UPON TYNE C.C. (a) Alterations to cloakroom and toilets at Kenton Lodge Training College, Kenton Road. (b) Director of Education, City Education Office, Northumberland Road, Newcastle 1. (c) 5gn. (e) February 22.

* * *

NORTH RIDING OF YORKSHIRE C.C. (a) Conversion of outbuildings at Gillamoor (C.E.) School, near Kirby Moorside. (b) F. Barraclough, County Hall, Northallerton. (d) February 19.

* * *

NORTH - WEST METROPOLITAN REGIONAL HOSPITAL BOARD. (a) Erection of admission wards at St. Leonard's Hospital, Southall, Middlesex. The buildings will be in single-storey brick construction with pitched tiled roofs, four separate wards with a kitchen block. Estimated cost: £130,000. (b) Regional Architect, 40 Eastbourne Terrace, London, W.2. (d) February 19.

* * *

PORTSMOUTH C.C. (a) Erection of (1) 78 houses at Prospect Farm. (2) Three shops, three maisonnettes and six houses at Paulsgrove. (3) Sixty traditional garages at Paulsgrove. (4) One house at Fawcett Road. (b) City Architect, 1 Western Parade. (c) £1 each contract. (d) February 10 (today).

* * *

PORT TALBOT B.C. (a) Erection of a branch library at Morrison Road, Sandfields, Aberavon. (b) Borough Engineer, Municipal Buildings. (c) 2gn. (e) February 22.

* * *

RADCLIFFE B.C. (a) Extension of the public library. (b) Borough Engineer and Surveyor, Town Hall. (c) 2gn. (e) February 16.

* * *

REDDITCH U.C. (a) Erection of 60 traditional dwellings in Studley Road. (b) Engineer and Surveyor, Council House. (c) 3gn. (d) Immediately. (e) February 16.

* * *

REIGATE B.C. (a) Conversion of Whitepost House, Whitepost Hill, into 12 flats for old people. (b) Borough Surveyor, Town Hall. (e) February 22.

* * *

REIGATE B.C. (a) Erection of one block of 12 four-storey maisonnettes and one block of 14 four-storey maisonnettes with stores under, at the Dome Estate, North Street, Redhill. (b) Borough Surveyor, Town Hall, Reigate. (c) 2gn. (e) February 18.

* * *

ROCHESTER C.C. (a) Erection of 26 houses and 12 flats at Warren Wood redevelopment Stage IV. (b) City Surveyor, 66 Maidstone Road, Rochester. (c) 3gn. (e) March 7.

SCARBOROUGH B.C. (a) Erection of 24 one-bedroom flats, West Place. (b) Borough and Water Engineer, Town Hall. (c) 2gn. (e) February 29.

* * *

SOUTH SHIELDS B.C. (a) Erection of combined public convenience and electricity substation at Station Approach. (b) Borough Engineer, Town Hall. (c) 2gn. (e) February 16.

* * *

SOUTH SHIELDS B.C. Erection of 120 houses and 43 garages at Simonside, consisting of 56 two-bedroom houses in terrace, 12 corner-type flats, 52 three-bedroom houses and 43 garages. (b) Borough Engineer, Town Hall. (c) 2gn. (e) March 9.

* * *

SOUTHWELL R.C. (a) Erection of 11 pairs of houses at Abbott Crescent, Farnsfield, with site works. (b) Architect and Surveyor, 7 Westgate, Southwell. (c) 2gn. (e) February 22.

* * *

SWINDON B.C. (a) Erection of 21 old people's dwellings at Walcot. (b) Borough Architect, Civic Offices. (d) February 19.

* * *

TIPTON B.C. (a) Erection of 12 flats in two three-storey blocks at Alexandra Road. (b) Borough Housing Architect, Municipal Buildings. (c) 3gn. (e) March 8.

* * *

WALSALL B.C. (a) (1) Erection of 56 houses, Beachdale estate. (2) 64 houses, Beechdale estate. (3) 12 houses, Woodwards Road, 42 houses, Hildicks Bridge, Goscote Lane. (b) Borough Engineer and Surveyor, Council House. (c) 2gn. (e) February 25.

* * *

WINCHESTER C.C. (a) Contract 6. Erection of 44 dwellings on Winnal Manor estate. (b) Wilson & Partners, 6 Storey's Gate, London, S.W.1. (c) 2gn. (d) February 11.

* * *

WOLVERHAMPTON B.C. (a) Erection of a park keeper's bungalow at Heath Town Park. (b) Borough Engineer, Town Hall. (c) 2gn. (d) February 15.

* * *

WORCESTER C.C. (a) Additional sanitary accommodation at Hillborough Home for the Aged, Tallow Hill, comprising two three-storey blocks, with minor alterations. (b) City Engineer and Surveyor, 22 Bridge Street, Worcester. (c) 3gn. (e) February 29.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BASILDON DEVELOPMENT CORPORATION. (1) Erection of 505 dwellings and 126 garages. (2) Lee Chapel South. (3) Leslie & Co. Ltd., Peel Street, London, W.8. (4) £956,000.

* * *

BIRMINGHAM C.C. (1) Erection of 107 dwellings in four-storey construction. (2) Long Nuke Road, Northfield. (3) C. Bryant & Sons Ltd., Whitmore Road, Birmingham, 10. (4) £229,000.

* * *

BIRMINGHAM. (1) Eighteen shops with maisonnettes over for Second City Properties Ltd. (2) Acocks Green. (3) Tersons Ltd., 4 Dollis Park, Finchley, N.3.

* * *

BRISTOL C.C. (1) Erection of flats and maisonnettes. (2) Broomhill estate. (3) Benson Bros. (Bristol) Ltd., Bristol. (4) £81,986.

* * *

CROYDON B.C. (1) First stage of new fire station. (2) Old Town. (3) J. Gerrard & Sons Ltd., Victoria House, Southampton Row, London, W.C.1. (4) £157,000.

* * *

DARLINGTON B.C. (1) Erection of 164 houses. (2) Lingfield estate. (3) F. Shepherd & Son Ltd., Blue Bridge Land, York. (4) £245,036.

* * *

DERBY. (1) Erection of a shopping centre for Duckworth Place (Derby) Ltd. (3) A. Roberts & Co. Ltd., Eccleston Square, London, S.W.1. (4) £132,000.

* * *

EXETER C.C. (1) First instalment of the Technical College. (2) Hele Road. (3) Stephens & Son Ltd., Sidwell Street, Exeter. (4) £101,498.

* * *

GREENOCK B.C. (1) Erection of 184 houses. (2) Fancy Farm. (3) Dougall & Co. Ltd., Glasgow Road, Dumbarton. (4) £375,000.

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GUILDFORD B.C. (1) Erection of a Civic Hall. (2) The Firs. (3) Dove Bros. Ltd., Cloudesley Place, London, N.1. (4) £229,597.

* * *

GUILDFORD B.C. (1) Houses and flats. (2) Park Barn. (3) E. Clarke & Sons Ltd., Addlestone, Surrey. (4) £122,775.

* * *

KINGSTON-ON-THAMES. (1) Erection of final stage of technical college. (3) Humphreys Ltd., Knightsbridge, London, S.W.7. (4) £430,000.

* * *

LONDON, S.E. (1) Erection of offices for George Anson & Co. Ltd. (2) Southwark Street, London, S.E.1. (3) Higgs & Hill Ltd., Crown Works, South Lambeth Road, London, S.W.8. (4) £100,000.

* * *

LONDON C.C. (1) Erection of building at Froebel Institute. (2) Roehampton Lane, London, S.W.15. (3) W. J. Marston Ltd., 1 Stephendale Road, London, S.W.6. (4) £90,000.

* * *

LONDON C.C. (1) Erection of blocks of flats on various sites. (2) Maida Vale. (3) Rowley Bros. Ltd., Tottenham. (4) £297,982. (2) Poplar. (3) W. & C. French Ltd., Chigwell, Essex. (4) £209,477. (2) Stepney. (3) Kirk & Kirk Ltd., Putney. (4) £166,530. (2) Poplar. (3) Thomas McInerey & Sons Ltd., Watford. (4) £131,124. (2) Stepney. (3) H. Webb (Builders) Ltd., Romford. (4) £165,169. (2) Lewisham. (3) Thomas & Edge Ltd., Woolwich. (4) £113,314. (2) Lambeth. (3) G. Ward (Ealing) Ltd. (4) £94,215. (2) Wandsworth. (3) M. Howard (Mitcham) Ltd., Mitcham. (4) £78,970.

* * *

MAIDENHEAD B.C. (1) Erection of a new town hall. (2) St. Ives car park site. (3) J. Jarvis & Sons Ltd., 239 Vauxhall Bridge Road, London, S.W.1. (4) £357,850.

* * *

NORFOLK C.C. (1) Erection of a county home. (2) Swaffham. (3) Horace Mach & Son Ltd., High Street, Watton, Thetford. (4) £50,729.

* * *

READING B.C. (1) Erection of junior school. (2) Manor. (3) Tilbury Construction Co. Ltd., Twyford, Berks. (4) £53,780.

* * *

STOKE-ON-TRENT C.C. (1) Erection of a home for the aged at Blurton estate. (2) Morgan Building Co. Ltd., Bothen Old Road, Stoke-on-Trent. (4) £73,844.

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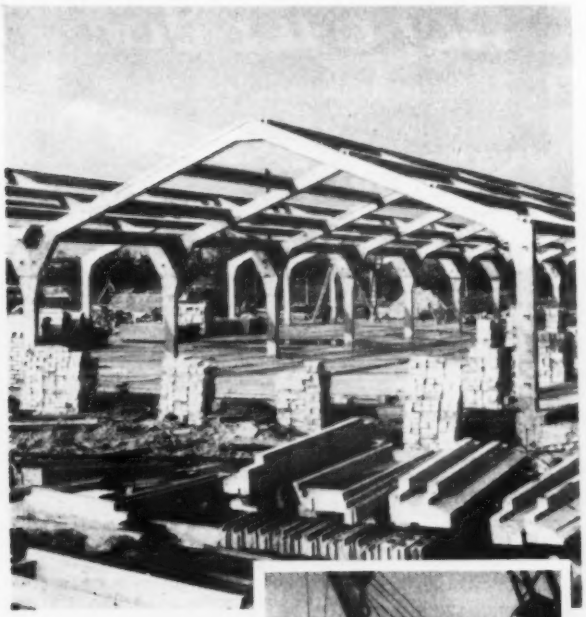

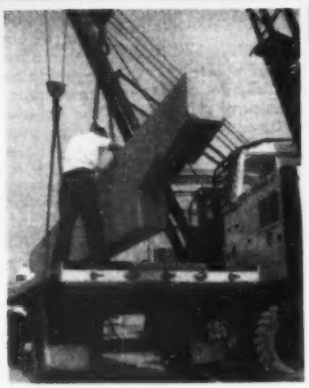

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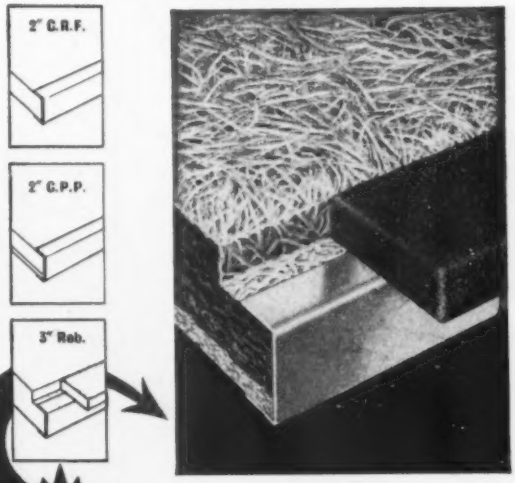

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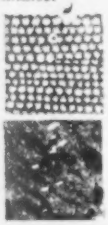

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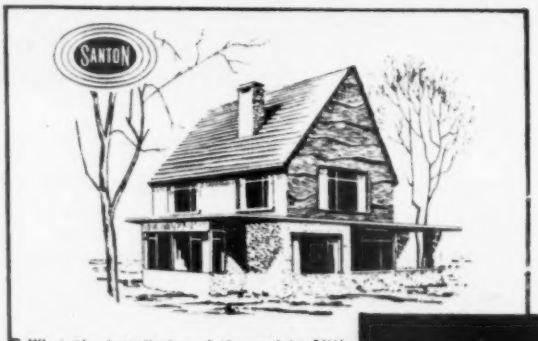

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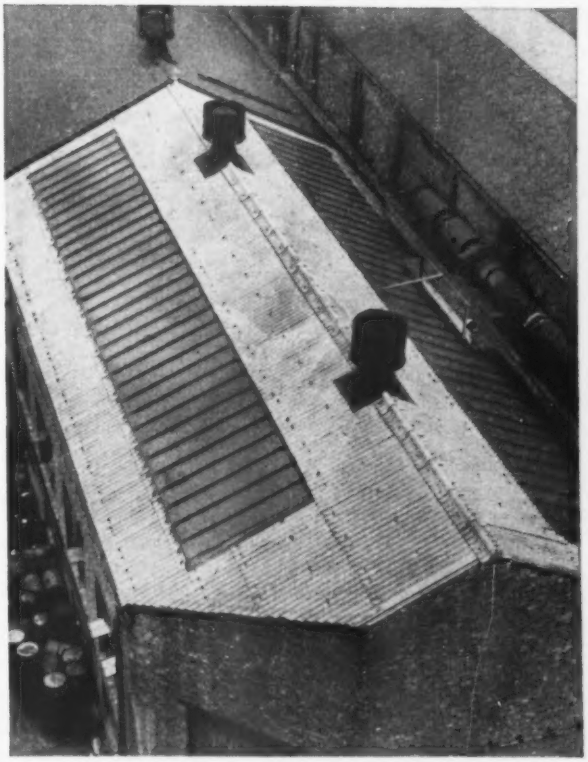

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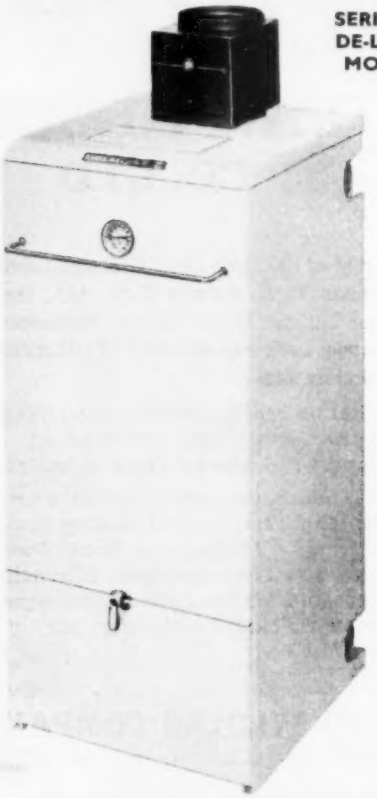

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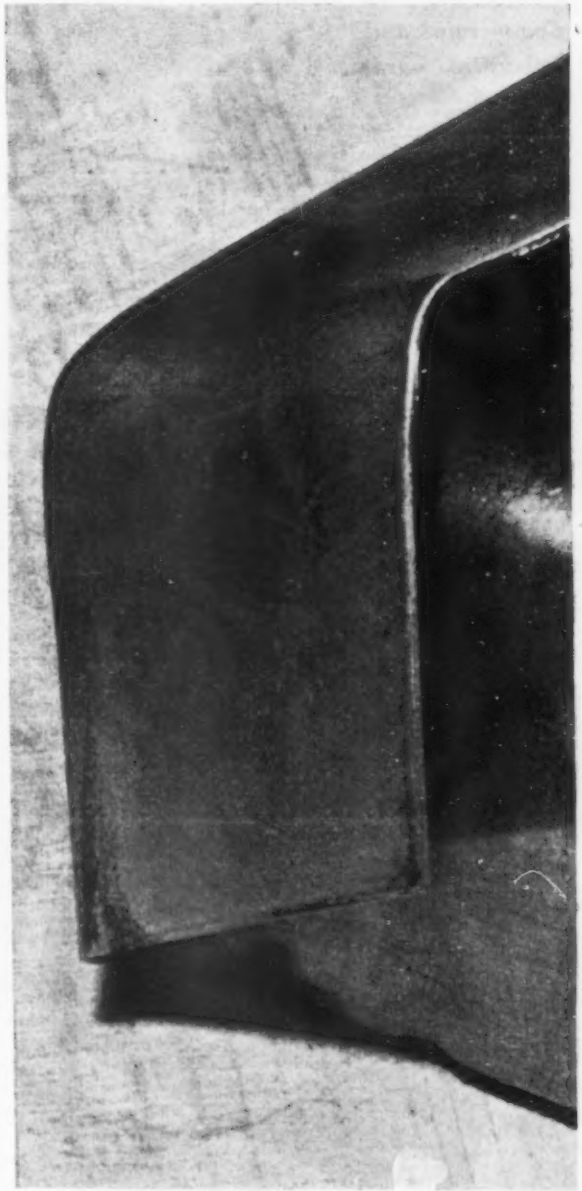

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(b) **Assistant Architect.** Salary Grade APT II (£765/£880).

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Town Clerk.

Town Hall,
Jarrow. [6109

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Town Clerk.
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(a) **Second Technical Assistant.** Grade APT II (£765/£880 p.a.).

(b) **Technical Assistant.** Grade APT II (£765/£880 p.a.). (Both excluding London Weighting.)

Applicants with experience in the building trade and the maintenance of housing properties should preferably for position (a) have passed the Intermediate R.I.C.S. (Building) or equivalent, and for position (b) possess a Higher National Certificate in Building.

Application forms, returnable by first post on Monday, February 22, 1960, obtainable from the Borough Engineer and Surveyor, Town Hall, Upper Street, N.1.

H. DIXON CLARK,
Town Clerk.
[6111

W. S. ATKINS & PARTNERS
(Consulting Engineers)

REQUIRE qualified Architects and Architectural Draughtsmen in their architectural department to work on major industrial projects. Conditions of service include a five-day week and superannuation scheme. Applications should be addressed to the Personnel Manager, 158 Victoria Street, S.W.1. [6066

Easthampstead Rural District Council
APPOINTMENT OF
ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the permanent appointment of an Architectural Assistant in the Department of the Engineer and Surveyor. The salary will be in accordance with the scale for Special Classes of Officers under the National Scheme of Conditions of Service, i.e., £785 per annum rising to a minimum of £1,070 per annum. Applicants should have passed Parts I and II of the R.I.B.A. Final or Special Final examination or their equivalent at one of the recognized schools of architecture and to have had at least five years' experience (including the period spent on theoretical training).

Applications from candidates having passed the Final examination of the R.I.C.S. (Building Section) would also be considered.

Preference will be given to suitable candidates having had previous Local Government experience.

Applications endorsed "Architectural Assistant" must be addressed to the undersigned to arrive not later than first post on Monday, February 22, 1960.

D. H. M. SAUNDERS,
Clerk of the Council.

Council Offices,
Church Road,
Bracknell. [6123

The Tyrone County Education Committee

INVITES applications for the post of Section Architect in the Education Offices, Omagh, for which a salary up to £1,260, according to qualifications and experience, will be paid.

Applicants should be capable of contemporary design of a high standard and of taking complete charge of the design, working drawings and supervision of contracts. Possession of a car is essential and appropriate travelling expenses will be paid. Removal expenses may be granted to married applicants.

Applications on forms from Chief Education Officer, Education Offices, Omagh, should be lodged with him within two weeks of the appearance of this notice. [6126

City of Liverpool
Architectural and Housing Department

APPLICATIONS are invited for appointment of Architects, Surveyors and Structural Engineers as under:

(1) **Chief Assistant, Senior Assistants** and **Assistants (Architectural).**
Salary Scales "B," "A," APT V and N.J.C.
Applicants should possess the A.R.I.B.A. or equivalent qualification.

(2) **Senior Assistants (Surveying).**
Salary Scales APT IV and N.J.C.
Applicants should possess the A.R.I.C.S., A.M.I.Mun.E., or equivalent qualification.

(3) **Assistant (Structural Engineering).**
Salary Scale N.J.C.
Applicants should possess the A.M.I.C.E., or A.M.I.Struct.E.

Salary Scales:
"B"—£1,265/£1,485. "A"—£1,220/£1,420.
APT V—£1,220/£1,375. APT IV—£1,065/£1,220.
N.J.C.—£785/£1,070.

Application forms (including further details) returnable by February 20, 1960, from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool, 2.

The appointments are superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies. (J.6036.)

THOMAS ALKER,
Town Clerk.
[6129

County Borough of Great Yarmouth
Schools Architect's Department

APPLICATIONS are invited from Associate Members of the R.I.B.A. for a Senior Assistant Architect within APT IV (£1,065/£1,220).

Preference will be given to candidates who have had experience on school work.

Housing accommodation will be available to the successful candidate if married. Assistance with removal expenses may be given in suitable cases.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees, should reach the Schools Architect, 22 Fuston Road, Great Yarmouth, by February 26, 1960.

D. G. FARROW,
Chief Education Officer.

22 Fuston Road,
Great Yarmouth. [6128

Chorley Rural District Council
APPOINTMENT OF TECHNICAL ASSISTANT (BUILDING)

APPLICATIONS are invited for this appointment at a salary in accordance with Grades APT I or II of the National Scale (£610/£880) depending upon qualifications and experience. Applicants should have a thorough knowledge of contract procedure and builders' quantities.

The appointment is superannuable and subject to the National Scheme of Conditions of Service and to one calendar month's notice on either side.

Applications giving personal particulars, details of training and experience, and naming two referees must reach me by March 1, 1960.

DAVID CLARKSON,
Clerk of the Council.

Council Offices,
Gillibrand Street,
Chorley. [6114

Basildon Development Corporation
Department of Architecture and Planning

APPLICATIONS are invited from Planners to work in a team engaged on the implementation of the Master Plan proposals for a New Town with an ultimate population of at least 100,000 (present population 50,000). In particular, comprehensive redevelopment proposals for existing communities, which will become the outer residential neighbourhoods, offer unique and varied experience in all aspects of forward plannig and civic design.

Appointment will be on APT II or III within the salary range £765/£1,065 according to qualifications and experience, and is superannuable subject to medical examination.

Rented housing may be available.

Applications on the special form (obtainable from the Chief Architect/Planner) to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, February 19, 1960. [6119

Barnet Urban District Council
ARCHITECTURAL ASSISTANT
(Housing and General)

APPLICATIONS are invited for the appointment of an Architectural Assistant, salary in accordance with APT Grades III or IV, according to qualifications and experience.

Duties are likely to include design and construction of Council housing and other buildings, maintenance of existing public buildings and town planning redevelopment.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should reach the Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet, Herts, on or before 12 noon on Thursday, February 11, 1960.

ALFRED S. MAYS,
Clerk of the Council.

Municipal Offices,
Wood Street,
Barnet,
Herts.
January 22, 1960. [6080

British Transport Commission
Office of the Architect
ASSISTANT ARCHITECT
Salary range: £943/£985 p.a.

APPLICANTS must be Associates of the R.I.B.A. or have passed the Final R.I.B.A. examinations qualifying for Associateship. There are good prospects for promotion in the Commission's service for young architects with design ability, willing to contribute to the execution of a challenging programme of modernization.

Superannuation scheme; certain travel facilities; medical examination. Write stating age, qualifications and experience to Director of Establishment, British Transport Commission, 222 Marylebone Road, London, N.W.1, within 14 days. Addressed envelope for acknowledgment.

Basildon Development Corporation
Department of Architecture and Planning

APPLICATIONS are invited for the appointment of Senior Architect, Grade APT IX (£1,527/£1,755).

An Associate of the R.I.B.A. with outstanding ability in housing layout and design is required to lead a Section on an extensive programme of development and redevelopment. The evolution of the New Town to its ultimate population of at least 100,000 from the present population of 50,000 now creates exceptional opportunities for advanced layout and design.

The appointment is superannuable and subject to medical examination.

House or flat available.

Applications on the special form (obtainable from the Chief Architect/Planner) must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, February 26, 1960. [6120

Metropolitan Borough of Islington

Borough Engineer and Surveyor's Department

APPLICATIONS are invited from suitably qualified persons, not more than 50 years of age, for the appointment of Senior Technical Assistant, Grade APT III (£880/£1,065 per annum, plus London Weighting) on the permanent staff of the Housing Maintenance Section.

Candidates must have a sound knowledge of building construction and services, considerable experience in the preparation of specifications and estimates for maintenance works, and should preferably have passed the final examination of an appropriate professional institute.

Forms of application, returnable by first post on Monday, February 29, 1960, obtainable from the Borough Engineer and Surveyor, Town Hall, Upper Street, N.1.

H. DIXON CLARK,
Town Clerk.
[6133

West Sussex County Council
County Architect's Department

APPLICATIONS are invited for the following appointments:

(1) **Assistant Architect,** at a salary in accordance with the Special Grade of the National Scales of Salaries (£785/£1,070).

(2) **Assistant Heating/Engineer/Designer/Draughtsman,** at a salary in accordance with Grade III APT Division (£880/£1,065).

Commencing salary in both cases according to experience.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than February 25, 1960.

F. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester. [6136

Appointments continued overleaf

MISCELLANEOUS SECTION

RATE: 1/9d per line, minimum 3/6d, average line 6 words. Each para charged separately. Advertisements for Situations Wanted are accepted at the specially reduced rate of 6d. per line, minimum 1/6d.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

SEMI-DISPLAY Advertisements with centralised lines are charged at 25/- per inch. and pro rata, minimum half inch.

PRESS DAY, Monday. Remittances payable to Messrs. Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors

APPOINTMENTS (cont)

Rate: 25/- per inch and pro rata, minimum half inch.

Borough of Ilkeston

APPLICATIONS are invited for the appointment of Architectural Assistant within the Grade APT IV (£1,065/£1,220).

Commencing salary to be according to qualifications and experience.

Housing accommodation available. Canvassing disqualifies.

Application forms and conditions of appointment obtainable from A. O. Marshall, Borough Surveyor and Water Engineer, Town Hall, Ilkeston, to whom they are to be returned by Wednesday, February 24, 1960.

J. YATES,
Town Clerk.
[6088

London County Council
ARCHITECTS
(Up to £1,135 (under review))

REQUIRED for Housing, Schools and General Divisions. Full and varied programme of new work including schools, multi-storey flats and town development. Starting salaries according to qualifications and experience.

Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/113/59, County Hall, S.E.1. (2630.) [0837

County Borough of East Ham
ASSISTANT PLANNING OFFICER
Grade APT I (£610/£765)

VACANCY in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

A subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application forms from the Town Clerk, E.6.

Closing date February 19, 1960. [6112

TENDERS

Rate: 25/- per inch and pro rata, minimum half inch.

Ashford (Kent) Urban District Council

FIXED Tenders are invited for the erection of: (a)Filter House—Beaver Road Swimming Bath, Ashford.

(b) Public Conveniences—Odeon Car Park, Ashford.

The work on site (a) comprises a timber filter house, concrete cascade and excavations for filter plant: site (b) comprises ladies and gents conveniences in one building.

Drawings, specification and form of tender may be obtained from The Surveyor, 1 Elwick Road, Ashford, Kent, by February 12, 1960.

Sealed tenders, in the envelope provided, are to be delivered by not later than noon on February 24, 1960.

G. H. REDFERN,
Clerk of the Council.

Council Offices, Church Road,
Ashford, Kent.
February 2, 1960. [6124

Pembrokeshire County Council
Fire Brigade Committee
PROPOSED NEW FIRE STATION, PEMBROKE DOCK

RECOGNIZED building contractors are invited to tender for the erection of a new three-bay Fire Station with ancillary buildings and one Fireman's House in High Street, Pembroke Dock.

The building will be mainly of two storeys with a single storey Appliance Room, Drill and Hose Drying Tower, and certain Workshops. The general construction will be traditional with load-bearing walls, concrete roofs, etc.

Contractors will be required to give proof that they are in a position to provide labour and staff in order to carry out this contract in an expeditious and workmanlike manner.

Applicants wishing to tender are asked to register their names with Lt.-Col. Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, before Saturday, February 20, 1960, when arrangements will be made to dispatch all relevant documents.

Applications must be accompanied by a deposit of £2 2s which will be returned on receipt of a bona fide tender and all returnable documents.

The County Council do not bind themselves to accept the lowest or any tender.

H. LOUIS UNDERWOOD,
Clerk of the County Council.

County Offices,
Haverfordwest.
January 29, 1960. [6117

ARCHITECTURAL APPOINTMENTS VACANT

Rate: 1/9 per line, minimum 3/6, average line six words.

ARCHITECTURAL ASSISTANT required with good general training, capable of taking charge of London office. Good opportunity for progressive young architect. Write giving particulars of qualifications and salary required to Box 6936. [0490

ARCHITECTURAL ASSISTANT required by West End architects, small, busy, varied practice. Qualifications not essential. Salary commensurate with ability and experience. Howard Kelly and Partners, 11 Duke Street, W.1. WELbeck 3995. [6098

ARCHITECTURAL ASSISTANTS REQUIRED WHY travel to Town when I can offer two Assistants, Inter Final grade, first-class work on stores, office buildings, factories, dance halls, etc. Five-day week, bonus scheme, luncheon vouchers, use of cars on job visits and for summer holidays. Pleasant surroundings with easy access to Morden Underground and Southern Electric Merton Park Station. 146 Mostyn Road, S.W.19. Tel.: LIBerty 8181. [6121

ARCHITECTURAL ASSISTANTS required for busy office with interesting and varied work. Intermediate and Final R.I.B.A. standard. Salary £750/£950 p.a. Five-day week. Apply in writing or telephone Covell & Matthews, 34 Sackville Street, London, W.1. REGent 2291. [6122

ARCHITECTURAL ASSISTANTS required in Birmingham office for preparation of working drawings, specifications, etc. Ability to drive a car an asset. Salary £800 to £1,000 per annum according to experience. Pension scheme. Telephone: Birmingham Central 6139, or write Box 7240. [6116

ARCHITECTURAL ASSISTANTS of Final and Inter-standard required for work on industrial buildings. Excellent opportunities in an expanding London office. Apply stating age, experience and salary range, to the Chief Architect, Nuclear Civil Constructors, 52-55 Carnaby Street, London, W.1. [0820

ARCHITECTURAL ASSISTANTS and ARCHITECTURAL DRAUGHTSMEN required by large national corporation with world wide interests. Staff restaurant and social club, etc. Applications with full particulars including salary required to Box 3172, c/o Charles Barker & Sons Ltd., Gateway House, London, E.C.4. [6092

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079

ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080

ARCHITECTURAL ASSISTANT at Final standard required by Buckinghamshire office. Interesting and varied work with scope for initiative and responsibility. State age, experience and salary required to Box 5143. [0136

ARCHITECTURAL ASSISTANT required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0916

ARCHITECTURAL ASSISTANTS, Senior and Junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Write Box 5793. [0999

ARCHITECTURAL ASSISTANTS required. R.I.B.A. Intermediate standard with some office experience. Varied and interesting work. Five-day week. Good salaries for keen and competent people. William Crabtree, F.R.I.B.A., 8 Robert Adam Street, W.1 (WELbeck 9909). [6068

ARCHITECTS' OFFICE with modern approach to design requires assistants of intermediate and final standard, London or Reading, for interesting and varied work. Good salary. Eric G. V. Hives & Sons, 80 Wimpole Street, Cavendish Square, W.1, and 46 Queen's Road, Reading. Apply in first instance to Reading (Telephone 55484/5). [6058

B.B.C. has two vacancies on its architectural staff, in London. Candidates must be students R.I.B.A. with at least two years' office experience, an interest in contemporary design and sound knowledge of construction. Appointment in one of following scales: £800 rising by annual increments to £1,025; or £935 rising by annual increments to £1,185. Requests for application forms to Engineering Recruitment Officer, Broadcasting House, London, W.1, quoting ref.: 60.E.8.A.B.N. [6110

COVELL & MATTHEWS
require
capable and enthusiastic
Senior and Junior Assistants
to work on large central area redevelopment projects
Salary according to experience
Five-day week
Ring REGent 2291 [5951

KENT COUNTY COUNCIL

NEW POSTS are offered in the office of the County Architect to assist with the Council's expanding building programmes which include many large and interesting projects.

ARCHITECTS possessing design ability and with experience in the design and control of building projects.

APT Grade V ..... £1,220/£1,375
APT Grade IV ..... £1,065/£1,220
Special Scale ..... £785/£1,070

ENGINEERS with experience in the design and supervision of installations in all types of buildings.

Electrical (senior post) ..... Scale B £1,280/£1,485
Heating and Mechanical ..... APT Grades IV-V £1,065/£1,375

QUANTITY SURVEYOR with experience in preparation of estimates, bills of quantities and final accounts.

APT Grade IV ..... £1,065/£1,220

CLERICAL ASSISTANT to Technical Librarian
Clerical Grade I ..... £595/£670

Candidates for posts in APT Grade IV and above must be corporate members of the appropriate professional institution. Those for the special architectural scale must have passed Parts I and II of the final R.I.B.A. examination.

The posts are on the permanent staff of the Buildings Department and are superannuable. Commencing salaries within the scales according to qualifications and experience. N.J.C. conditions of service.

Application forms and further details from County Architect, Springfield, Maidstone. Closing date, February 25, 1960.

ARCHITECTURAL APPOINTMENTS VACANT (cont)

CAPABLE Architectural Assistants (all grades) required in a modern office in Hemel Hempstead. Interesting and varied work. State age, training, qualifications and/or experience. Box 7050. [6062

ELIE MAYORCAS requires Senior Assistants with minimum of three years' office experience in this country. Write, giving particulars of architectural education and experience, and salary required, to: 13 David Mews, Baker Street, W.1. [0360

EXCEPTIONAL opportunity occurs for Architectural Assistants of Intermediate standard to gain experience in busy modern office dealing with industrial and commercial architecture at home and overseas. Scope for originality and contemporary design. Five-day week. Address applications, giving age, experience and salary required, to Stuart Bentley, F.R.I.B.A., company architect to the Dunlop Group of Companies, Fort Dunlop, Erdington, Birmingham, 24—marked "Architectural Assistants". [6079

INTERMEDIATE standard Architectural Assistant required immediately for work on exhibition and ancillary buildings. Write giving details of age, training and experience, if any, to the Staff Architect, Olympia Limited, Kensington, London, W.14. [0640

J. DOUGLASS MATHEWS & PARTNERS have three vacancies for Architectural Assistants. Salary range £700/£1,000. Group system operated, giving opportunity for taking part in all aspects of work. Graded salary system. Annual bonuses. Pension scheme. Luncheon vouchers. 3 Ebury Street, London, S.W.1. [0540

LARGE-SCALE development in London and industrial buildings in Home Counties. High office blocks and residential flats. Four Assistant Architects required, Senior and Intermediate standard. West End office. Five-day week. Good salaries and bonuses. Box 7076. [0380

LONDON ARCHITECTS require Assistants of Intermediate and of Final standard for work on large scale University development. Salaries commensurate with experience. Five-day week. Telephone WHI 2552 or write Box 7100. [0590

LONDON ARCHITECTS' OFFICE requires architect for University work. Candidate must be well above average, with five to seven years' responsible experience. Salary about £1,200. Telephone WHI 2552 for interview, or apply in writing to Box 7099. [0754

LYONS, ISRAEL & ELLIS require Senior and Intermediate Standard Assistants. Applicants please state age, training and experience, to L.I. & E., 43 Portland Place, W.1, or phone LAN 2791. [6113

POWELL AND MOYA require Assistants. Please write to 36 Great Smith Street, S.W.1, or telephone ABBey 3156. [6065

QUALIFIED ARCHITECT required, age approx. 28-35 years, particularly interested in high quality exhibition and interior work to take charge of small design studio. Salary £1,500/£2,000. Box 7022. [6051

QUALIFIED ARCHITECT required, Bristol. Industrial/commercial experience. Scope for individuality and freedom of expression. Good salary. Interesting work. Pension scheme. Assistants of Intermediate standard also required. Details of experience to W. H. Watkins, Gray & Partners, 1 Clare Street, Bristol, 1. [6032

SENIOR ARCHITECTURAL ASSISTANTS required to work on industrial projects, having experience in handling complete contracts. A.R.I.B.A. or Final standard.

Architectural Assistants of Intermediate standard for work on varied projects.

Apply stating position applied for, age, experience and salary required to: Group Architect, Associated Electrical Industries (Rugby) Limited, Mill Road, Rugby, Warwickshire. [6125

SENIOR ARCHITECTURAL ASSISTANTS, and Juniors up to about Intermediate standard, required for varied industrial and commercial work in West End office. Scope for initiative and advancement. Salary from £500 to £1,000, according to age and experience. Five-day week. Write giving full details to Box 6379. [0888

SENIOR ASSISTANT urgently required for pleasant office in Gray's Inn. Interesting and varied practice. Salary up to £1,100. Telephone CHAncery 8387. [6135

WILLIAAM J. COX (Sales) LTD. of London and Tring—the Acrylic Rooflight Manufacturers—have vacancy for young man, preferably with drawing office experience. Subject to suitability, he will be offered a permanent and responsible position connected with sales and development of rooflights. Starting salary in accordance with experience, but not less than £700 p.a. Write to Managing Director at 559 Holloway Road, N.19. [6078

WORCESTERSHIRE. Required at once Architectural Assistants, Senior and Junior, for busy office with a varied selection of work, in pleasant surroundings. Applicants must be good draughtsmen with a keen sense of design. State salary and when free. Pemberton & Bateman, F/R.I.B.A., 21 Vine Street, Evesham. [6087

SITUATIONS VACANT

COMPETENT DESIGNER / DRAUGHTSMAN required who is prepared to specialize in drawings in connection with the manufacture of fibrous plaster. Apply in own handwriting stating age, experience and salary required to: Assistant Secretary, Trollope & Colls Ltd., Trocoll House, One Noble Street, Gresham Street, E.C.2. [6049

CONCRETE ENGINEER required to promote sales of patented expansion joints (already well introduced to the market). Contacts with consultants, architects and contractors desirable. Remuneration by salary, car expenses and bonus on expanded sales. Apply Box 7162, giving full details of experience, etc. [6106

QUANTITY SURVEYOR (ASSISTANT) required for building contractor's office (applicants would require to be resident in Elgin, Lossimouth or Forres area). Apply stating age, training and experience. Box 7248. [6118

WORK WANTED

BUILDER and Decorator, A. G. Davenport, 274 Downham Way, Downham, Kent, LEE Green 8796. Keenest prices for all types of interior and exterior decorating. Try us! [6006

EXCAVATION sub-contracts, site development, overburden removal, clay getting, earth dam construction, etc. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D.9, D.8, TD.18 and TD.14 scrapers, excavators, loading shovels and lorries available with competent and imaginative supervision for execution of work. Also interested in overseas projects calling for not exceeding 10,000yd per week output. Dick Hampton, Blackuest, Alton, Hants. Tel.: Bentley 2241. [0334

G. BARTER & CO., Industrial Decorative Spray and Brush Painters (labour only on contract). We supply equipment, 1a Whitton Way, Hounslow, Middlesex. HOUnslow 9615. SOUthall 3815. [0083

SERVICES OFFERED

ESTABLISHED QUANTITY SURVEYOR offers part-time assistance to the professions. Reasonable charges. Sheffield area. Box 7272. [6130

BUSINESS & PROPERTY

SPACE to let to Architect in industrial designer's Mayfair office consisting of one room £4 or sharing large light room £2 10s. Brunn Associates, 13a Old Burlington Street, W.1. REG 5425. [6132

MISCELLANEOUS

ARCHITECTS, surveyors, demolishers, etc., we are buyers of redundant and surplus refrigeration equipment, all kinds. We dismantle and collect. Best prices given. Write Box 5516. [6023

REFRIGERATED SHELVES for bottle cooling; beer and wine coolers, etc., for hotel, catering and licensed trades, supplied and installed. G.V.E. Ltd., 231 Strand, W.C.2. FLE 5947. [0813

STEEL SHELVING for shops, offices, factories, etc. Green, grey or white. Shelf sizes from 6in by 33in to 24in by 36in. Heights: 6ft, 7ft or 8ft. It costs less from Surfix Ltd., Foscote Works, Amberley Road, W.9. CUN 8769. [0530

EDUCATIONAL

CANDIDATES PREPARED FOR R.I.B.A. Supplementary tuition and Revision Courses also arranged in any subject. Write to the Principal (A. B. Waters, F.R.I.B.A., F.I.Arb.), Ellis School of Architecture, 103c Old Brompton Road, London, S.W.7, or to Albany House, Worcester. [0084

COMPETITION

BURGH OF DUMBARTON ARCHITECTURAL COMPETITION:
CENTRAL AREA REDEVELOPMENT

THE Town Council of the Royal Burgh of Dumbarton invite architects resident in the United Kingdom to submit designs for an area of 40 acres for redevelopment primarily for commercial use, in the centre of the Burgh.

Assessor: Professor R. H. Matthew, C.B.E., M.A., F.R.I.B.A.

Premiums: £1,200, £900, £500.

Last day for submitting designs: May 30, 1960.

Conditions may be obtained from the Town Clerk, Municipal Buildings, Dumbarton, on payment of a deposit of £2. [6131

BRITISH RAILWAYS

LONDON MIDLAND REGION

ASSISTANT ARCHITECTS

REQUIRED

APPLICATIONS ARE INVITED FOR VACANCIES IN THE OFFICE OF THE REGIONAL ARCHITECT AT EUSTON STATION, LONDON

The Electrification Programme offers great opportunities for imaginative designers and the work is of wide architectural scope and interest. In addition to vacancies for general architectural work the present Research Unit is to be strengthened and its activities will embrace standardisation of buildings, furniture, equipment and unit planning.

SALARIES are offered within the range **£833** per annum to **£1,200** per annum, with five-day week and concessionary rail travel.

Apply in writing quoting reference No. 89 stating qualifications, age, experience and salary required to:

W. R. Headley, A.R.I.B.A., A.A.Dipl.,
Regional Architect,
Chief Civil Engineer's Office,
5a Euston Grove, London, N.W.1

Classified advertisements continued overleaf

COMPETITION

County Council of Dunbarton

DUNBARTON COUNTY COUNCIL invite Architects practising or resident in Great Britain and Northern Ireland to submit in Open Competition Designs for County Council Offices on a site fronting Route A.82 at Crosslet, Dumbarton. The Assessors will be Mr. F. R. Wylie, F.R.I.B.A., Glasgow, Professor J. H. Napper, F.R.I.B.A., Newcastle upon Tyne, and Mr. James Mottram, A.R.I.B.A., Edinburgh, President of the Royal Incorporation of Architects in Scotland.

The Competition will be run in two stages, the six successful competitors at the First Stage taking part in the Second Stage. Each of these six competitors will receive the sum of £400, subject to conditions, for the work involved in the preparation of the Second Stage entry and the premium for the design placed first will be £1,500.

The conditions will be available after February 15, 1960, from the County Clerk, County Buildings, Church Street, Dumbarton.

A deposit of two guineas which must accompany all applications for the conditions will be returned on receipt of a bona fide design, or, in the event of the applicant declining to compete, on the return of the competition documents at least four weeks before the date for submitting designs for the First Stage.

The last day for the receipt of First Stage designs will be July 30, 1960.

JOHN F. MILLER, County Clerk.

County Buildings, Dumbarton.
February 1, 1960. [6127

ARCHITECTS

We require several Architects, preferably recently qualified, to join our present team. Our projects are extensive, varied, and on a large scale, giving ample scope for initiative and responsibility.
A limited number of Inter A.R.I.B.A. standard (or H.N.C.) men will also be considered as Architectural Assistants.

Salary range £850/£1,200 according to experience and qualifications. Staff Life Assurance and Pension Scheme. Five-day week.

Applications (in confidence) to:

Employment Officer, Ref.: A/21/ABN),
Littlewoods Mail Order Stores Ltd.,
Spinney House, Church Street, Liverpool, 10

Stainless Steel or Galvanized

CROCKERY WASH & STERILIZING UNIT

GAS, ELECTRIC OR STEAM

In sizes to meet requirements

Specialists in Sink Unit Fabrication

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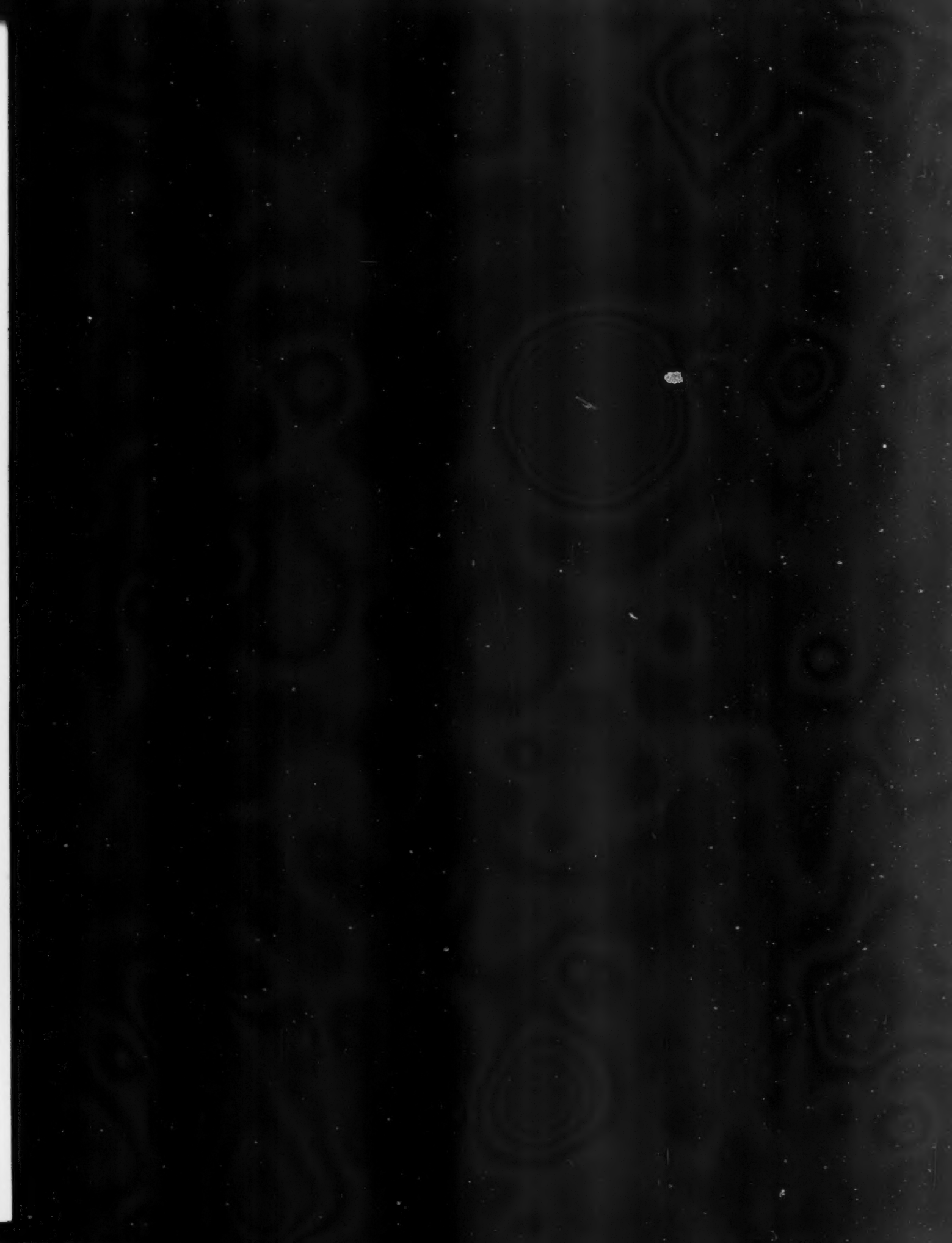
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